

APPENDIX E

RAMP LABORATORY ANALYTICAL DATA PACKAGES

(Provided on accompanying DVD)

Pace Analytical e-Report

Report prepared for:

General Electric Company
381 Broadway, Bldg. 40
Fort Edward, NY 12828 USA
Contact: Robert Gibson
EHS Leader-Hudson River

Project ID: HUDSON RIVER RAMP

Sampling Date(s): August 12, 2015

Lab Report ID: 15080496

Client Service Contact: Jill Grygas (518) 346-4592 ext. 3850

Analysis Included:

Congener PCB (1L CSGB 410)
Congener PCB (8L CSGB 410)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),
Massachusetts (M-NY906), Virginia (1884)

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CASE NARRATIVE

September 23, 2015

REVISED CASE NARRATIVE

This data package (SDG ID: 15080496) consists of 3 water samples received on 08/13/2015. The samples are from Project Name: HUDSON RIVER RAMP.

Revised Data Summary Package

The following correction has been made to the original data package submitted for this sample delivery group:

- (1.) The results for peak 4 and peak 10 were inadvertently misreported in the original data package. The results have been corrected.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AS24252	FRS-FDBL-T150812090920	08/12/2015 09:09
AS24253	FRS-PE-T150812090652	08/12/2015 09:07
AS24254	FRS-PE-T150812091325	08/12/2015 09:13

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 08/13/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved with any exceptions listed below:
- (4.) Cooler temperature(s) were outside quality acceptance limits upon sample receipt.

Total PCBs by Green Bay Method (1L)

Analysis for Total PCBs was performed by PACE SOP NE294_02. NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. The following technical and administrative items were noted for the analysis:

- (1.) Peak 10, Peak 17, Peak 27, Peak 38, Peak 43, and Peak 50 were observed in the Method Blank sample (LAB ID: AS24666). All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (2.) Sample (LAB ID: AS24254) required additional analysis at a dilution for Peak 44 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a LAB ID suffix of DL. The concentration for Peak 44 is included in the original analysis to provide the correct PCB total concentration.
- (3.) NOTE: mGBM DB-1 Peak 5 (IUPAC 4 and 10 PCB Congeners) Quantification by Secondary GC column analysis: IUPAC Congeners 4 and 10 co-elute on the primary ZB-1 or DB-1 GC columns used for this analysis methodology as assigned GC Peak # 5. Individual quantitation of PCB Congeners IUPAC 4 and IUPAC 10 is provided by SOP NE293 as a secondary GC Column analysis using a CP-Sil5/C18 column. The concentration results for IUPAC 4 and IUPAC 10 are merged with the mGBM primary ZB/DB-1 GC column analysis and provided on the final PCB Congener Reports and Electronic Data Deliverables. IUPAC 4 and IUPAC 10 concentrations are designated on the PCB Congener Reports and EDDs as peaks 5-4 and 5-10. The original DB/ZB-1 Peak 5 response is not included in the summed total PCB concentrations to avoid double counting of these congeners.

Total PCBs by Green Bay Method (8L)

Analysis for Total PCBs was performed by PACE SOP NE294_02. NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. The following technical and administrative items were noted for the analysis:

(1.) Peak 27, Peak 33, Peak 34, Peak 44, and Peak 51 were observed in the Method Blank sample (LAB ID: AS24847B). All associated positive sample concentration results have been flagged (B) to denote the observed contamination.

(2.) NOTE: mGBM DB-1 Peak 5 (IUPAC 4 and 10 PCB Congeners) Quantification by Secondary GC column analysis: IUPAC Congeners 4 and 10 co-elute on the primary ZB-1 or DB-1 GC columns used for this analysis methodology as assigned GC Peak # 5. Individual quantitation of PCB Congeners IUPAC 4 and IUPAC 10 is provided by SOP NE293 as a secondary GC Column analysis using a CP-Sil5/C18 column. The concentration results for IUPAC 4 and IUPAC 10 are merged with the mGBM primary ZB/DB-1 GC column analysis and provided on the final PCB Congener Reports and Electronic Data Deliverables. IUPAC 4 and IUPAC 10 concentrations are designated on the PCB Congener Reports and EDDs as peaks 5-4 and 5-10. The original DB/ZB-1 Peak 5 response is not included in the summed total PCB concentrations to avoid double counting of these congeners.

(3.) Samples (LAB ID: AS24252 and AS24523) and including quality control samples (LAB ID: AS24847B and AS24847L) were re-analyzed to an internal standard failure. The results are provided with a RR1 sample suffix ID.

Respectfully submitted,



William A. Kotas
Assistant General Manager

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue, Montvale, NJ 07645 Ph: 201-936-9890

Client: General Electric Company

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC150812091434PACE

Sample Custodian: CC

Lab: PACE

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC Sample Number	Field Sample ID	QA/QC	Matrix**	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED		METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
								TEST REQUESTED	METHOD						
001	FRS-FDBL-T150812090920	FDBL	W	08/12/2015	09:09	W	2	AS245 AS24252		NE294_02	N	N	N	168	4degC
002	FRS-PE-T150812090652	PE	W	08/12/2015	09:07	W	2	AS24253		NE294_02	N	N	N	168	4degC
003	FRS-PE-T150812091325	PE	W	08/12/2015	09:13	W	1	AS24254		NE294_02	N	N	N	168	4degC

3

Comments:	Temp: 6.4, 5.6, 7.6, 6.4 (IR) COC seal (Y)														
Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
	VIA FEDEX		Marionallien				VIA FEDEX		Marionallien				VIA FEDEX		Marionallien
Print Name: S. Gosev	Print Name:	Print Name:	Print Name: Marionallien	Print Name: M. Wier	Print Name:	Print Name: S. Gosev	Print Name: VIA FEDEX	Print Name: Marionallien	Print Name: M. Wier	Print Name: PACE	Print Name:	Print Name: S. Gosev	Print Name: VIA FEDEX	Print Name: Marionallien	Print Name: M. Wier
Company: Phenomenex	Company:	Company:	Company: PACE	Company:	Company:	Company: S. Gosev	Company: VIA FEDEX	Company: Marionallien	Company: M. Wier	Company: PACE	Company:	Company: S. Gosev	Company: VIA FEDEX	Company: Marionallien	Company: M. Wier
Date/Time: 8/12/15 15:00	Date/Time:	Date/Time:	Date/Time: 8/13/15 0935	Date/Time:	Date/Time:	Date/Time: 8/12/15 15:00	Date/Time: VIA FEDEX	Date/Time: Marionallien	Date/Time: M. Wier	Date/Time: PACE	Date/Time:	Date/Time: S. Gosev	Date/Time: VIA FEDEX	Date/Time: Marionallien	Date/Time: M. Wier

Date Printed: 8/12/2015

* S = SEDIMENT, W= WATER ** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

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15080496

Sample Condition Upon Receipt

COURIER: FedEx UPS Client Pace Other
 TRACKING # 7742 7153 4251 / 7742 7153 3878 CUSTODY SEAL PRESENT: Yes No
 PACKING MATERIAL: Bubble Wrap Bubble Bags None Other
 THERMOMETER USED: #164 IR Gun 03 #122087967
 BIOLOGICAL TISSUE IS FROZEN: Yes No N/A

CLIENT NAME: Phenova / GE
 PROJECT: NR - Ramp

No INTACT: Yes No N/A
 ICE USED: Wet Blue None

COOLER TEMPERATURE (°C): 6.4, 5.6, 1.0, 6.4

Temp should be above freezing to 6°C

Temperature is Acceptable? Yes No

COMMENTS:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name / Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
- Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12.
- Includes date/time/ID/Analysis	MJW 8/19/15		see page 3 mjw 8/19/15 on sample container "FRS-PE-T150812090652" there were two container labels upon receipt at the lab samples see page 3 "FRS-PE-T150812090652 1/2 and 2/2. Labeled container 1/2 per PM.
All containers needing preservation have been checked:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Upon receipt at the lab samples" see page 3 "FRS-PE-T150812090652 1/2 and 2/2. Labeled container 1/2 per PM.
All containers needing preservation are in compliance with EPA recommendation:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses			Initial when completed: NA Lot # of added preservative: NA
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	14.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	15.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Pace Trip Blank Lot #:	NA		

Sample Receipt form filled in: MW 8/19/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):

Log In (Includes notifying PM of any discrepancies and documenting in LIMS):

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

MW 8/19/15

AJB 8/17/15

MW 8/19/15

<5F96496C>



custody - FRS-PE-T150812090652 (ONE CONTAINER) 6.4 C

From: custody
To: Grygas, Jill
Date: 8/13/2015 11:02 AM
Subject: FRS-PE-T150812090652 (ONE CONTAINER) 6.4 C

FRS-PE-T150812090652 (ONE CONTAINER) 6.4 C

FRS-FDBL-T1508012090920 (BOTH CONTAINERS) 7.6 C, 10.2 C

FRS-PE-T150812091325 (ONE/ ONLY CONTAINER) 6.4 C

SAMPLE RECEIPT

4



SAMPLE RECEIPT REPORT

15080496

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

CLIENT: GENERAL ELECTRIC COMPANY
PROJECT: HUDSON RIVER RAMP
LRF: 15080496
REPORT: DATA PACKAGE
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 08/13/2015 09:35
SHIPPED VIA: FEDEX ^{1,2}
SHIPPING ID: SEE NOTES
NUMBER OF COOLERS: 4
CUSTODY SEAL INTACT: YES
COOLER STATUS: CHILLED
TEMPERATURE(S): ⁵(IR)6.4,5.6,7.6,6.4 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: NO
³ **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: RETURN TO CLIENT
COC DISCREPANCY: YES

COMMENTS:

FEDEX TRK#S: 7742 7153 4251, 7742 7153 3873, 7742 7153 3623, 7742 7153 4170.

UPON RECEIPT AT THE LAB, SAMPLE TEMPERATURE WAS GREATER THAN 6C FOR SAMPLES "

ON SAMPLE CONTAINER "FRS-PE-T150812090652" THERE WERE TWO CONTAINER LABELS: "FRS-PE-T150812090652 1/2" AND "FRS-PE-T150812090652 2/2". LABELED THE CONTAINER "FRS-PE-T150812090652 1/2" PER PM

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
FRS-FDBL-T150812090920 (AS24252)	7 DAYS 08-26-15	08/12/2015 09:09	Water	SOP NE294_02	Congener PCB (8L CSGB 410)	
FRS-PE-T150812090652 (AS24253)	7 DAYS 08-26-15	08/12/2015 09:07	Water	SOP NE294_02	Congener PCB (8L CSGB 410)	
FRS-PE-T150812091325 (AS24254)	7 DAYS 08-26-15	08/12/2015 09:13	Water	SOP NE294_02	Congener PCB (1L CSGB 410)	

¹The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.

²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it

⁴is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

SOP NE294_02 - Congener PCB (1L CSGB 410) - (ng/L)

NONACHLOROBIPHENYL

Peak 10	Peak 19
Peak 100	Peak 2
Peak 101	Peak 20
Peak 102	Peak 21
Peak 103	Peak 22
Peak 104	Peak 23
Peak 105	Peak 24
Peak 106	Peak 25
Peak 107	Peak 26
Peak 108	Peak 27
Peak 109	Peak 28
Peak 11	Peak 29
Peak 110	Peak 3
Peak 111	Peak 30
Peak 112	Peak 31
Peak 113	Peak 32
Peak 114	Peak 33
Peak 115	Peak 34
Peak 116	Peak 35
Peak 117	Peak 36
Peak 118	Peak 37
Peak 12	Peak 38
Peak 13	Peak 39
Peak 14	Peak 4
Peak 15	Peak 41
Peak 16	Peak 42
Peak 17	Peak 43
	Peak 44

SOP NE294_02 - Congener PCB (1L CSGB 410) - (ng/L)

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SAMPLE RECEIPT REPORT

15080496

Continued...

SOP NE294_02 - Congener PCB (1L CSGB 410) - (ng/L)

Peak 45
Peak 46
Peak 47
Peak 48
Peak 49
Peak 5 (10)
Peak 5 (4)
Peak 50
Peak 51
Peak 52
Peak 53
Peak 54
Peak 55
Peak 56
Peak 57
Peak 58
Peak 59
Peak 6
Peak 60
Peak 61
Peak 62
Peak 63
Peak 64
Peak 65
Peak 66
Peak 67
Peak 68
Peak 69
Peak 7
Peak 70
Peak 71
Peak 72
Peak 73
Peak 74
Peak 75
Peak 76
Peak 77
Peak 78
Peak 79
Peak 8
Peak 80
Peak 82
Peak 83
Peak 84
Peak 85
Peak 87
Peak 88
Peak 89
Peak 9
Peak 90
Peak 91
Peak 92
Peak 93
Peak 94
Peak 95
Peak 96
Peak 98
Peak 99
Total PCB

SOP NE294_02 - Congener PCB (8L CSGB 410) - (ng/L)

NONACHLOROBIPHENYL
Peak 10
Peak 100
Peak 101
Peak 102
Peak 103
Peak 104
Peak 105
Peak 106
Peak 107
Peak 108
Peak 109
Peak 11
Peak 110
Peak 111
Peak 112
Peak 113
Peak 114
Peak 115
Peak 116
Peak 117
Peak 118
Peak 12
Peak 13
Peak 14
Peak 15
Peak 16
Peak 17
Peak 19
Peak 2
Peak 20
Peak 21
Peak 22
Peak 23
Peak 24
Peak 25
Peak 26
Peak 27
Peak 28
Peak 29
Peak 3
Peak 30
Peak 31
Peak 32
Peak 33
Peak 34
Peak 35
Peak 36
Peak 37
Peak 38
Peak 39
Peak 4
Peak 41
Peak 42
Peak 43
Peak 44
Peak 45
Peak 46
Peak 47
Peak 48
Peak 49
Peak 5 (10)

SOP NE294_02 - Congener PCB (8L CSGB 410) - (ng/L)

Peak 5 (4)
Peak 50
Peak 51
Peak 52
Peak 53
Peak 54
Peak 55
Peak 56
Peak 57
Peak 58
Peak 59
Peak 6
Peak 60
Peak 61
Peak 62
Peak 63
Peak 64
Peak 65
Peak 66
Peak 67
Peak 68
Peak 69
Peak 7
Peak 70
Peak 71
Peak 72
Peak 73
Peak 74
Peak 75
Peak 76
Peak 77
Peak 78
Peak 79
Peak 8
Peak 80
Peak 82
Peak 83
Peak 84
Peak 85
Peak 87
Peak 92
Peak 93
Peak 94
Peak 95
Peak 96
Peak 98
Peak 99
Total PCB

INTERNAL SAMPLE TRACKING RECORD

CONGENER EXTRACTION LOG



Prep Date: 08/21/15

Batch ID: 31923

Method: EPA 3535A

Initial for required Clean Up Steps

KEN

KEN

KEN

	Prep ID	LAB Sample ID	Alt Sample ID	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Cu Shake (MM/DD)	Cell / Unit #	Job	pH	Comments
1	319112	CEBLK-06	AS24666B	SPE-1L	Water	1000	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L8	E CON1L	5	
2	319111	LCS-06	AS24666L	SPE-1L	Water	1000	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L7	E CON1L	5	
3	319102	15080563-01	AS24666	SPE-1L	Water	1000	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L6	E CON1L	6	
4	319103	15080563-02	AS24667	SPE-1L	Water	960	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L5	E CON1L	5	
5	319104	15080563-03	AS24668	SPE-1L	Water	1050	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L4	E CON1L	5	
6	319105	15080563-04	AS24669	SPE-1L	Water	1000	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L3	E CON1L	5	
7	319106	15080563-05	AS24670	SPE-1L	Water	980	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L2	E CON1L	5	
8	319107	15080563-06	AS24671	SPE-1L	Water	1040	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L1	E CON1L	5	
9	319108	15080563-07	AS24672	SPE-1L	Water	1020	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L3	E CON1L	5	
10	319109	15080563-08	AS24673	SPE-1L	Water	1020	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L2	E CON1L	5	
11	319110	15080496-03	AS24254	SPE-1L	Water	1040	N/A	5	08/21	NA	NA	08/21	08/21	NA	08/21	08/21	L1	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Methanol (Fisher)	142425	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid 50% v/v(18 N)H2O LAB	5030267	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	DM309	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>A1242 @ 1.0 PPM SPIKE IN ACETONE</u>	040215B038P177A	200	1.0ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper Granules CURRENT	410121-AZ	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 % Florisil WATER LAB	0601158082A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Nona@0.2ppm in Acetone</u>	070815B039P106A	500	0.2ppm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	0000102565	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (Dewar)	DN127B	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (Dewar)	DM970	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5

*Kaitlyn Nedo*Analyst Review: _____
Kaitlyn Nedo*Jew*Peer Review: _____
Cathy ChenPrint Date: 9/24/2015
Lims Version : 5.0.8.9

CONGENER SCREEN SHEET

LRF: 15080496

Batch ID:31923

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst	Dilution Solvent
AS24666BRR1	GC30-482-5	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24666LRR1	GC30-482-6	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24666RR1	GC30-482-7	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24667RR1	GC30-482-8	Water	08/21/15	960	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24668RR1	GC30-482-9	Water	08/21/15	1050	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24669RR1	GC30-482-10	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24670RR1	GC30-482-11	Water	08/21/15	980	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24671RR1	GC30-482-12	Water	08/21/15	1040	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24672RR1	GC30-482-13	Water	08/21/15	1020	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24673RR1	GC30-482-15	Water	08/21/15	1020	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24254RR1	GC30-483-5	Water	08/21/15	1040	5	NA	NA	1	NA	5x	Angela Racine	NA

COMMENTS: _____

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Print Date: 9/24/2015

Lims Version : 5.0.8.9

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CONGENER SCREEN SHEET

LRF: 15080496

Batch ID:31923

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst	Dilution Solvent
AS24666B	GC24-1219-5	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24666L	GC24-1219-6	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24666	GC24-1219-7	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24667	GC24-1219-8	Water	08/21/15	960	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24668	GC24-1219-9	Water	08/21/15	1050	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24669	GC24-1219-10	Water	08/21/15	1000	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24670	GC24-1219-11	Water	08/21/15	980	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24671	GC24-1219-12	Water	08/21/15	1040	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24672	GC24-1219-13	Water	08/21/15	1020	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24673	GC24-1219-15	Water	08/21/15	1020	5	NA	NA	1	NA	5x	Angela Racine	NA
AS24254DL2	GC24-1221-11	Water	08/21/15	1040	5	NA	NA	5	NA	5x	Angela Racine	Hexane (Dewar)[DL805A]
AS24254	GC24-1219-16	Water	08/21/15	1040	5	NA	NA	1	NA	5x	Angela Racine	NA

COMMENTS: _____

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Lims Version : 5.0.8.9

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CONGENER EXTRACTION LOG



Prep Date: 08/24/15

Batch ID: 31930

Method: EPA 3535A

Initial for required Clean Up Steps

KEN

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	Prep ID	LAB Sample ID	Alt Sample ID	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Cu Shake (MM/DD)	Cell / Unit #	Job	pH	Comments
1	319197	CEBLK-07	AS24847B	SPE-8L	Water	8000	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L8	E CON8L	5	
2	319196	LCS-07	AS24847L	SPE-8L	Water	8000	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L7	E CON8L	5	
3	319189	15080608-01	AS24847	SPE-8L	Water	8030	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L6	E CON8L	5	
4	319190	15080608-02	AS24848	SPE-8L	Water	8160	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L5	E CON8L	5	
5	319191	15080608-03	AS24849	SPE-8L	Water	8190	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L4	E CON8L	5	
6	319192	15080608-04	AS24850	SPE-8L	Water	8320	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L3	E CON8L	5	
7	319193	15080608-07	AS24853	SPE-8L	Water	8060	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L8/L7	E CON8L	5	
8	319194	15080496-01	AS24252	SPE-8L	Water	7780	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L2	E CON8L	5	
9	319195	15080496-02	AS24253	SPE-8L	Water	7840	N/A	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L1	E CON8L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Methanol (Fisher)	142425	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid 50% v/v(18 N)H2O LAB	5030267	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	DM309	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A1242 @ 0.05 PPM SPIKE IN ACETONE	040215B038P177C	1000	0.05ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper Granules CURRENT	410121-AZ	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nonachlorobiphenyl @0.02PPM in Acetone	052615B039P064A	500	0.02ppm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 % Florisil WATER LAB	0601158082A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	0000102565	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (Dewar)	DN127B	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (Dewar)	DM970	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Analyst Review: _____
Kaitlyn NedoPeer Review: _____
Tom HeroldPrint Date: 9/24/2015
Lims Version : 5.0.8.9

CONGENER SCREEN SHEET

LRF: 15080496

Batch ID:31930

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst	Dilution Solvent
AS24847BRR1	GC30-483-7	Water	08/24/15	8000	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24847LRR1	GC30-483-8	Water	08/24/15	8000	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24847RR1	GC30-483-9	Water	08/24/15	8030	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24848RR1	GC30-483-10	Water	08/24/15	8160	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24849RR1	GC30-483-11	Water	08/24/15	8190	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24850RR1	GC30-483-12	Water	08/24/15	8320	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24853RR1	GC30-483-13	Water	08/24/15	8060	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24252RR1	GC30-483-14	Water	08/24/15	7780	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24253RR1	GC30-483-15	Water	08/24/15	7840	5	NA	NA	1	NA	5x	Jared Acker	NA

COMMENTS: _____

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Print Date: 9/24/2015

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CONGENER SCREEN SHEET

LRF: 15080496

Batch ID:31930

Lab Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst	Dilution Solvent
AS24847BRR2	GC24-1221-1	Water	08/24/15	8000	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24847LRR2	GC24-1221-2	Water	08/24/15	8000	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24847RR2	GC24-1221-3	Water	08/24/15	8030	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24848RR2	GC24-1221-4	Water	08/24/15	8160	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24849RR2	GC24-1221-5	Water	08/24/15	8190	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24850RR2	GC24-1221-6	Water	08/24/15	8320	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24853RR2	GC24-1221-7	Water	08/24/15	8060	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24252RR2	GC24-1221-9	Water	08/24/15	7780	5	NA	NA	1	NA	5x	Jared Acker	NA
AS24253RR2	GC24-1221-10	Water	08/24/15	7840	5	NA	NA	1	NA	5x	Jared Acker	NA

COMMENTS: _____

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Print Date: 9/24/2015

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SURROGATE % RECOVERY SUMMARY

PCB ANALYTICAL SEQUENCE

Lab Name: Pace Analytical Services, Inc.

SDG No: 15080496

ELAP ID No: 11078

Init. Calib. Date(s): 05/20/2015, 05/21/2015

GC Column (1): Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm

Instrument ID: GC30

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
01	IUPAC 4-10 0.100 ng/mL	ICBZ0520A	GC30-453-6	05/20/2015 23:52:11
02	IUPAC 4-10 0.500 ng/mL	ICBZ0520B	GC30-453-7	05/21/2015 00:39:28
03	IUPAC 4-10 5.0 ng/mL	ICBZ0520C	GC30-453-8	05/21/2015 01:26:42
04	IUPAC 4-10 25.0 ng/mL	ICBZ0520D	GC30-453-9	05/21/2015 02:13:57
05	IUPAC 4-10 50.0 ng/mL	ICBZ0520E	GC30-453-10	05/21/2015 03:01:06
06	HEXANE BLANK	150822B03	GC30-482-3	08/22/2015 17:59:02
07	CCCS Std 25.0 ng/mL	CCCS0822AA	GC30-482-4	08/22/2015 18:46:21
08	CEBLK-06(METHOD BLANK)	AS24666BRR1	GC30-482-5	08/22/2015 19:33:44
09	LCS-06(LAB CONTROL SPIKE)	AS24666LRR1	GC30-482-6	08/22/2015 20:21:03
10	CCCS Std 25.0 ng/mL	CCCS0822AB	GC30-482-14	08/23/2015 02:39:59
11	HEXANE BLANK	150824B03	GC30-483-3	08/24/2015 09:52:10
12	CCCS Std 25.0 ng/mL	CCCS0824AA	GC30-483-4	08/24/2015 10:39:31
13	FRS-PE-T150812091325	AS24254RR1	GC30-483-5	08/24/2015 11:26:57
14	CCCS Std 25.0 ng/mL	CCCS0824AB	GC30-483-6	08/24/2015 12:14:19
15	CEBLK-07(METHOD BLANK)	AS24847BRR1	GC30-483-7	08/24/2015 14:06:04
16	LCS-07(LAB CONTROL SPIKE)	AS24847LRR1	GC30-483-8	08/24/2015 14:53:25
17	FRS-FDBL-T150812090920	AS24252RR1	GC30-483-14	08/24/2015 19:37:56
18	FRS-PE-T150812090652	AS24253RR1	GC30-483-15	08/24/2015 20:25:27
19	CCCS Std 25.0 ng/mL	CCCS0824AC	GC30-483-16	08/24/2015 21:12:47

PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Pace Analytical Services, Inc.

SDG No: 15080496

ELAP ID No: 11078

Init. Calib. Date(s): 08/01/2015

GC Column (1): Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:						
IUPAC 207: <u>40.26</u>						
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)
01	ICAL 6.25 ng/mL	ICAL0731A	GC24-1207-7	08/01/2015 00:01:53		
02	ICAL 12.5 ng/mL	ICAL0731B	GC24-1207-8	08/01/2015 01:07:28		
03	ICAL 125 ng/mL	ICAL0731C	GC24-1207-9	08/01/2015 02:13:05		
04	ICAL 314 ng/mL	ICAL0731D	GC24-1207-10	08/01/2015 03:18:39		
05	ICAL 627 ng/mL	ICAL0731E	GC24-1207-11	08/01/2015 04:24:16		
06	ICAL 1254 ng/mL	ICAL0731F	GC24-1207-12	08/01/2015 05:30:05		
07	SUP CONG STD 200/5 ng/ml	SC0731A	GC24-1207-14	08/01/2015 07:41:14		
08	Surr TCMX/DCBP 5/50 ppb	TD0731A	GC24-1207-15	08/01/2015 08:46:53		
09	Surr Std (207) 2.0 ng/mL	SS0731A	GC24-1207-16	08/01/2015 09:52:33		
10	Surr Std (207) 20.0 ng/mL	SS0731B	GC24-1207-17	08/01/2015 10:58:09		
11	HEXANE BLANK	150822B03	GC24-1219-3	08/22/2015 18:32:25		
12	CCC Std 122 ng/mL	CCCS0822A	GC24-1219-4	08/22/2015 19:37:57		
13	CEBLK-06(METHOD BLANK)	AS24666B	GC24-1219-5	08/22/2015 20:43:30	40.26	0.00
14	LCS-06(LAB CONTROL SPIKE)	AS24666L	GC24-1219-6	08/22/2015 21:49:03	40.25	-0.01
15	CCC Std 122 ng/mL	CCCS0822B	GC24-1219-14	08/23/2015 06:33:41		
16	FRS-PE-T150812091325	AS24254	GC24-1219-16	08/23/2015 08:44:44	40.26	0.00
17	CCC Std 122 ng/mL	CCCS0822C	GC24-1219-18	08/23/2015 10:55:53		
18	HEXANE BLANK	150824B03	GC24-1220-3	08/24/2015 16:14:36		
19	CCC Std 122 ng/mL	CCCS0824C	GC24-1220-16	08/25/2015 06:27:13		
20	CEBLK-07(METHOD BLANK)	AS24847BRR2	GC24-1221-1	08/25/2015 09:43:53	40.25	-0.01
21	LCS-07(LAB CONTROL SPIKE)	AS24847LRR2	GC24-1221-2	08/25/2015 10:49:29	40.26	0.00
22	CCC Std 122 ng/mL	CCCS0825A	GC24-1221-8	08/25/2015 17:23:10		
23	FRS-FDBL-T150812090920	AS24252RR2	GC24-1221-9	08/25/2015 18:28:40	40.25	-0.01
24	FRS-PE-T150812090652	AS24253RR2	GC24-1221-10	08/25/2015 19:34:10	40.25	-0.01
25	FRS-PE-T150812091325	AS24254DL2	GC24-1221-11	08/25/2015 20:39:41	40.25	-0.01
26	CCC Std 122 ng/mL	CCCS0825B	GC24-1221-12	08/25/2015 21:45:09		



Sample Name:	AS24252RR2	Sample Amount:	7.780 L
Sample ID:	FRS-FDBL-T150812090920	Dilution:	5
Date Acquired:	08/25/2015 18:28:40	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/26/2015 07:07:25
Sample Set Name:	GC24_082515a	User Name:	Jared Acker
Processing Method:	CSGB_S_2_073115	Current Time:	06:22:57
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1221-9

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.25	8428	1.624	81.2
2	I.S. (OCN)	46.03	88239	28.288	



Sample Name:	AS24253RR2	Sample Amount:	7.840 L
Sample ID:	FRS-PE-T150812090652	Dilution:	5
Date Acquired:	08/25/2015 19:34:10	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/26/2015 15:31:15
Sample Set Name:	GC24_082515a	User Name:	Jared Acker
Processing Method:	CSGB_LL1X_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1221-10

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.25	7881	1.624	81.2
2	I.S. (OCN)	46.03	82509	28.506	



Sample Name:	AS24254	Sample Amount:	1.040 L
Sample ID:	FRS-PE-T150812091325	Dilution:	5
Date Acquired:	08/23/2015 08:44:44	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/26/2015 07:14:41
Sample Set Name:	GC24_082215	User Name:	Angela Racine
Processing Method:	CSGB_S_20_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1219-16

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.26	80287	16.557	82.8
2	I.S. (OCN)	46.02	91408	3.781	



Sample Name:	AS24254DL2	Sample Amount:	1.040 L
Sample ID:	FRS-PE-T150812091325	Dilution:	25
Date Acquired:	08/25/2015 20:39:41	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/26/2015 07:07:53
Sample Set Name:	GC24_082515a	User Name:	Jared Acker
Processing Method:	CSGB_S_20_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1221-11

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.25	17910	4.170	104
2	I.S. (OCN)	46.03	80956	0.756	



Sample Name:	AS24666B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	08/22/2015 20:43:30	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/24/2015 09:29:25
Sample Set Name:	GC24_082215	User Name:	Angela Racine
Processing Method:	CSGB_S_20_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1219-5

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.26	63394	14.013	70.1
2	I.S. (OCN)	46.03	85276	3.636	



Sample Name:	AS24666L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	08/22/2015 21:49:03	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/24/2015 09:29:36
Sample Set Name:	GC24_082215	User Name:	Angela Racine
Processing Method:	CSGB_S_20_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1219-6

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.25	74167	15.885	79.4
2	I.S. (OCN)	46.03	88011	3.636	



Sample Name:	AS24847BRR2	Sample Amount:	8.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	08/25/2015 09:43:53	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/25/2015 13:45:41
Sample Set Name:	GC24_082515	User Name:	Jared Acker
Processing Method:	CSGB_S_2_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1221-1

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.25	7807	1.665	83.2
2	I.S. (OCN)	46.02	79726	29.088	



Sample Name:	AS24847LRR2	Sample Amount:	8.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	08/25/2015 10:49:29	Extract Volume:	5 mL
Project Name:	GC24_Jan_2015	Date Processed:	08/25/2015 13:45:55
Sample Set Name:	GC24_082515	User Name:	Jared Acker
Processing Method:	CSGB_S_2_073115	Current Time:	06:22:58
Run Time:	60 Minutes	Current Date:	8/27/2015
Report Name:	CSGB_Surrogate(Lims Generated)	LIMS File ID:	GC24-1221-2

Peak Results

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.26	8332	1.596	79.8
2	I.S. (OCN)	46.02	88755	29.088	

LABORATORY CONTROL SPIKE SUMMARY

PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 15080496

LCS ID: LCS-06

Blank Sample ID: CEBLK-06

LCS File ID: GC24-1219-6

Method Blank File ID: GC24-1219-5

LCS Inj Date: 08/22/2015 21:49:03

Method Blank Inj Date: 08/22/2015 20:43:30

LCS Lab ID No: AS24666L

Method Blank Lab ID No: AS24666B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	176	88.1	60.0-140

Column to be used to flag recovery values.

* Value outside of QC limits.

Comments: _____

PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078
LCS ID: LCS-07RR2
LCS File ID: GC24-1221-2
LCS Inj Date: 08/25/2015 10:49:29
LCS Lab ID No: AS24847LRR2

SDG No: 15080496
Blank Sample ID: CEBLK-07RR2
Method Blank File ID: GC24-1221-1
Method Blank Inj Date: 08/25/2015 09:43:53
Method Blank Lab ID No: AS24847BRR2

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY	#	QC LIMITS PERCENT RECOVERY
Total PCBs	6.25	6.22	99.5		60.0-140

Column to be used to flag recovery values.

* Value outside of QC limits.

Comments:

METHOD BLANK SUMMARY

PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-06
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-06(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666B
% Moisture:	100	Lab File ID:	GC24-1219-5
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/22/2015 20:43
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-06RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-06(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666BRR1
% Moisture:	100	Lab File ID:	GC30-482-5
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/22/2015 19:33
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-07RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-07(METHOD BLANK)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847BRR1
% Moisture:	100	Lab File ID:	GC30-483-7
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 14:06
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

SAMPLE TOTAL PCB CONCENTRATION: <1.22 ng/L U

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

PCB METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-07RR2
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-07(METHOD BLANK)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847BRR2
% Moisture:	100	Lab File ID:	GC24-1221-1
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 09:43
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

SAMPLE TOTAL PCB CONCENTRATION: <1.22 ng/L U

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

SAMPLE ANALYSIS DATA

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-01RR1
Matrix:	Water	Client ID:	FRS-FDBL-T150812090920
Sample Wt(Dry)/Vol:	7780 mL	Lab Sample ID:	AS24252RR1
% Moisture:	100	Lab File ID:	GC30-483-14
Extraction:	8L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 19:37
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 74893

Percent Recovery (50 - 150 %): 87.1

SAMPLE TOTAL PCB CONCENTRATION: <1.25 ng/L U

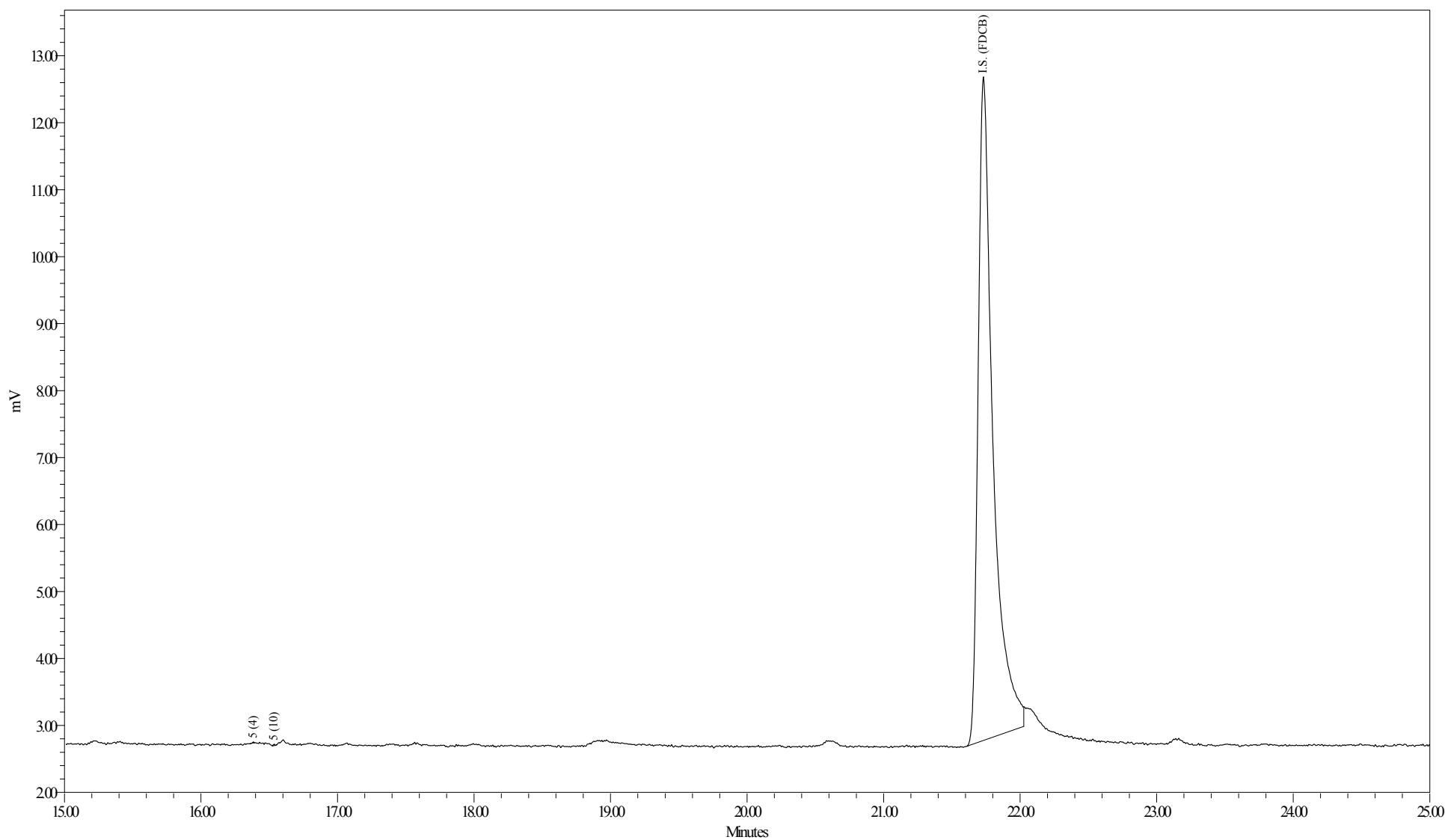
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AS24252RR1
Sample ID: FRS-FDBL-T150812090920
Date Acquired: 8/24/2015 7:37:56 PM EDT

Sample Amount (L): 7.7800
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-14 [n]

Sample Name: AS24252RR1

1 of 1

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-01RR2
Matrix:	Water	Client ID:	FRS-FDBL-T150812090920
Sample Wt(Dry)/Vol:	7780 mL	Lab Sample ID:	AS24252RR2
% Moisture:	100	Lab File ID:	GC24-1221-9
Extraction:	8L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 18:28
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 88239

Percent Recovery (50 - 150 %): 139

SAMPLE TOTAL PCB CONCENTRATION: <1.25 ng/L U

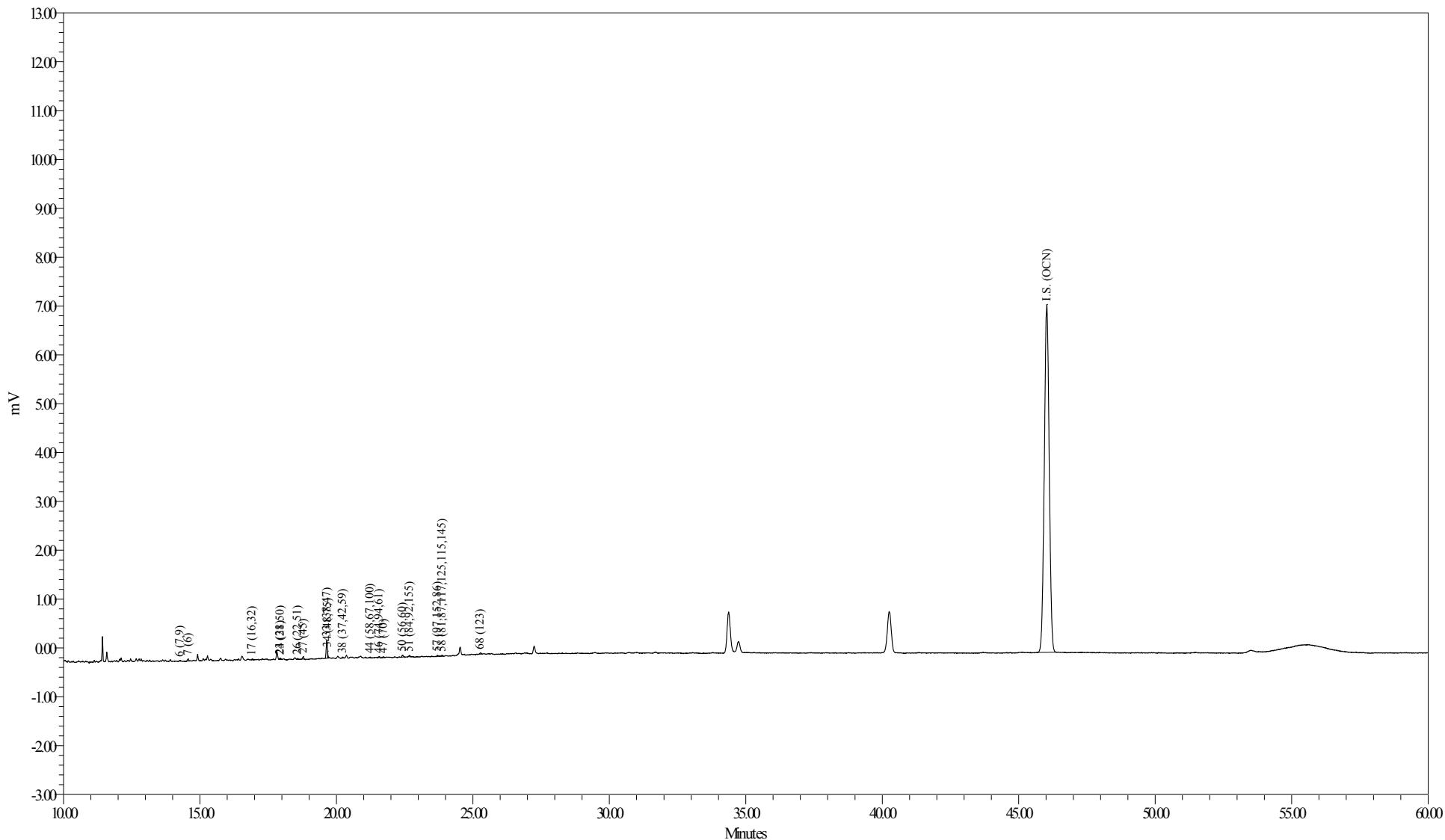
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Sample Name: AS24252RR2

1 of 1

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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-FDBL-T150812090920
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 18:28:40
 Lab Sample ID: AS2425RR2
 LRF ID: 15080496-01RR2
 Lab File ID: GC24-1221-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <1.25 ng/L U

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
Mono	0.00	0.00	A1221	2/001	0.00	0.00	0.00
Di	20.08	24.95	A1242	23+24/31+28	0.0002	100	100
Tri	0.00	0.00	A1254SED	61/100		0.00	
Tetra	71.78	68.11	A1254BIO	69+75+82/149+153+138			0.00
Penta	8.14	6.94	A1260	102/180		0.00	0.00
Hexa	0.00	0.00	A1268	115/194		0.00	0.00
Hepta	0.00	0.00					
Octa	0.00	0.00					
Nona	0.00	0.00					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.95

Meta + Para Cl / biphenyl Residue = 1.62

Total Cl / biphenyl Residue = 3.57

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: FRS-FDBL-T150812090920

Comment: HUDSON RIVER RAMP; COC150812091434PACE

Date Acquired: 08/25/2015 18:28:40

Lab Sample ID: AS24252RR2

LRF ID: 15080496-01RR2

Lab File ID: GC24-1221-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7				0.0450	0.282	U
3	12.70	188.7				0.910	129	U
4	12.80	188.7				0.168	0.168	U
5-4	16.38	223.1	10			0.0159	0.0643	U
5-10	16.54	223.1	15			0.0122	0.0643	U
6	14.27	223.1	26			0.0170	0.0282	U
7	14.56	223.1	113	0.0533	0.239	0.0344	0.0446	
8	14.76	223.1				0.0464	0.329	U
9	15.31	223.1				0.0621	3.21	U
10	15.40	257.5				0.0112	0.0132	U
11	15.86	257.5				0.0178	3.21	U
12	15.92	223.1				0.0587	3.21	U
13	16.11	223.1				0.00826	0.0125	U
14	16.26	249.0				0.0142	0.0869	U
15	16.34	257.5				0.0176	0.0869	U
16	16.64	257.5				0.00429	0.00610	U
17	16.91	257.5	43			0.0184	0.0916	U
19	17.34	267.9				0.0253	3.21	U
20	17.51	257.5				0.00289	0.00289	U
21	17.65	257.5				0.00327	0.0169	U
22	17.72	257.5				0.00349	0.00752	U
23	17.93	257.5	54			0.0186	0.0968	U
24	17.94	257.5	36			0.0170	0.124	U
25	18.33	259.5				0.0141	0.0933	U
26	18.57	258.7	36			0.0137	0.0681	U
27	18.78	292.0	142	0.0405	0.139	0.00521	0.0209	B
28	18.92	257.5				0.0280	3.21	U
29	19.07	292.0				0.00657	0.00940	U
30	19.18	257.5				0.0255	3.21	U
31	19.36	292.0				0.0259	0.112	U
32	19.52	292.0				0.0128	0.0540	U
33	19.65	292.0	1064	0.130	0.444	0.0122	0.0235	B
34	19.68	292.0	102	0.0174	0.0596	0.00521	0.0235	JB
35	19.84	292.0				0.0209	3.21	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.0234	3.21	U
37	20.10	292.0				0.0803	0.101	U
38	20.22	272.4	52			0.0118	0.0611	U
39	20.57	292.0				0.0137	0.0963	U
41	20.74	326.4				0.0311	3.21	U
42	20.84	292.0				0.0154	0.0221	U
43	21.08	298.9				0.0310	3.21	U
44	21.23	298.9	22	0.00374	0.0125	0.00176	0.00517	JB
45	21.40	292.0				0.0104	0.0104	U
46	21.56	292.0	59			0.00894	0.0446	U
47	21.72	292.0	60			0.0170	0.0799	U
48	21.83	293.5				0.0254	0.169	U
49	22.13	324.7				0.00969	0.0120	U
50	22.42	292.0	134			0.0350	0.0822	U
51	22.68	326.4	68	0.0209	0.0639	0.00915	0.0423	JB
52	22.78	326.4				0.00698	0.00698	U
53	22.92	326.4				0.00762	0.0423	U
54	23.12	326.4				0.00281	0.0174	U
55	23.39	326.4				0.000743	0.00132	U
56	23.49	326.4				0.00402	0.00704	U
57	23.69	326.4	61			0.0274	0.0274	U
58	23.87	326.4	49			0.00668	0.0272	U
59	24.03	326.4				0.00298	0.0164	U
60	24.17	360.9				0.00389	0.0176	U
61	24.29	326.4				0.00740	0.0500	U
62	24.56	360.9				0.0276	3.21	U
63	24.66	326.4				0.00688	0.0103	U
64	24.95	360.9				0.00730	0.0399	U
65	25.09	350.5				0.00274	0.00681	U
66	25.14	360.9				0.0225	0.0225	U
67	25.21	336.8				0.00337	0.00610	U
68	25.27	326.4	86			0.0402	3.21	U
69	25.40	337.5				0.0118	0.0940	U
70	25.51	360.9				0.0249	3.21	U
71	25.80	347.8				0.00289	0.00474	U
72	26.00	336.8				0.00269	0.00269	U
73	26.27	360.9				0.00698	0.00916	U
74	26.40	347.8				0.00683	0.0318	U
75	26.55	360.9				0.0187	0.0692	U
76	26.65	360.9				0.0201	3.21	U
77	27.08	360.9				0.00519	0.0399	U
78	27.15	395.3				0.00521	0.0343	U
79	27.36	360.9				0.00618	0.00618	U
80	27.51	360.9				0.00110	0.00610	U
82	27.73	360.9				0.0123	0.0634	U
83	27.90	360.9				0.00474	0.00587	U
84	28.10	360.9				0.000195	0.000608	U
85	28.44	395.3				0.00638	0.0258	U
87	28.74	395.3				0.00358	0.00940	U
88	28.89	395.3				0.0118	0.0846	U
89	29.02	360.9				0.00129	0.00470	U
90	29.19	395.3				0.00825	0.0399	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.00552	0.00552	U
92	29.79	394.3				0.00174	0.0110	U
93	30.17	394.3				0.0102	0.0752	U
94	30.43	394.3				0.00635	0.0399	U
95	30.72	382.2				0.00682	0.0186	U
96	30.97	429.8				0.000802	0.00155	U
98	31.14	395.3				0.00257	0.00257	U
99	31.51	429.8				0.00123	0.00916	U
100	31.74	395.3				0.0587	0.0587	U
101	32.04	429.8				0.00611	0.00611	U
102	32.21	395.3				0.0280	0.143	U
103	32.47	395.3				0.00239	0.00987	U
104	32.77	395.3				0.00160	0.00564	U
105	33.13	429.8				0.00247	0.0101	U
106	34.26	395.3				0.0218	0.0301	U
107	34.52	395.3				0.00824	0.00987	U
108	35.37	429.8				0.00173	0.00564	U
109	35.60	429.8				0.0171	0.0987	U
110	36.13	429.8				0.0190	0.101	U
111	37.26	395.3				0.00219	0.00219	U
112	38.82	429.8				0.00285	0.0130	U
113	39.32	464.2				0.00385	0.0116	U
114	40.24	464.2				0.00543	0.00543	U
115	41.63	429.8				0.00514	0.0423	U
116	42.51	429.8				0.00687	0.00687	U
117	47.59	464.2				0.00194	0.0160	U
118	53.54	498.6				0.000785	0.000785	U

Total Concentration = <1.25 ng/L

1.25 4.23 U

Total Nanomoles = 0.001

Average Molecular Weight = 277.2

Number of Calibrated Peaks Found = 20

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 88238.8

FDBC Internal Standard Retention Time = 21.73 minutes

FDBC Internal Standard Peak Area = 74892.8

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-FDBL-T150812090920
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 18:28:40
 Lab Sample ID: AS24252RR2
 LRF ID: 15080496-01RR2
 Lab File ID: GC24-1221-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001		2	-	-
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.38	2:2	004		2-2	-	-
5-10	16.54	2:2	010		26	-	-
6	14.27	2:1	007 009		24; 25	-	-
7	14.56	2:1	006	0.3163	2-3	20.080	24.949
8	14.76	2:1	005 008		23; 2-4	-	-
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019		26-2	-	-
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013		34; 3-4	-	-
14	16.26	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.34	3:2	017		24-2	-	-
16	16.64	3:2	024 027		236; 26-3	-	-
17	16.91	3:2	016 032		23-2; 26-4	-	-
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.51	3:1	029		245	-	-
21	17.65	3:1	026		25-3	-	-
22	17.72	3:1	025		24-3	-	-
23	17.93	3:1	031		25-4	-	-
24	17.94	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.33	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.57	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.78	4:3	045	0.4080	236-2	15.253	14.480
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046		23-26	-	-
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.52	4:2	043 049		235-2; 24-25	-	-
33	19.65	4:2	038 047	0.4269	345; 24-24	48.834	46.358
34	19.68	4:2	048 075	0.4275	245-2; 246-4	6.561	6.228
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035		34-3	-	-
37	20.10	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.22	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-
41	20.74	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040		23-23	-	-
43	21.08	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.23	4:1 5:3	058 067 100	0.4612	23-35; 245-3; 246-24	1.410	1.307
45	21.40	4:1	063		235-4	-	-
46	21.56	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.72	4:1	070		25-34	-	-
48	21.83	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.42	4:1	056 060		23-34; 234-4	-	-
51	22.68	5:3 6:4	084 092 155	0.4927	236-23; 235-25; 246-246	7.863	6.677
52	22.78	5:3	089		234-26	-	-
53	22.92	5:2	090 101		235-24; 245-25	-	-
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.49	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.69	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.87	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.03	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.29	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151		2356-25	-	-
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.27	5:1	123		345-24	-	-
69	25.40	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.73	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = <1.25 ng/L

Total Nanomoles = 0.001

Average Molecular Weight = 277.2

Number of Calibrated Peaks Found = 20

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-02RR1
Matrix:	Water	Client ID:	FRS-PE-T150812090652
Sample Wt(Dry)/Vol:	7840 mL	Lab Sample ID:	AS24253RR1
% Moisture:	100	Lab File ID:	GC30-483-15
Extraction:	8L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 20:25
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 73951

Percent Recovery (50 - 150 %): 86.0

SAMPLE TOTAL PCB CONCENTRATION: 8.33 ng/L

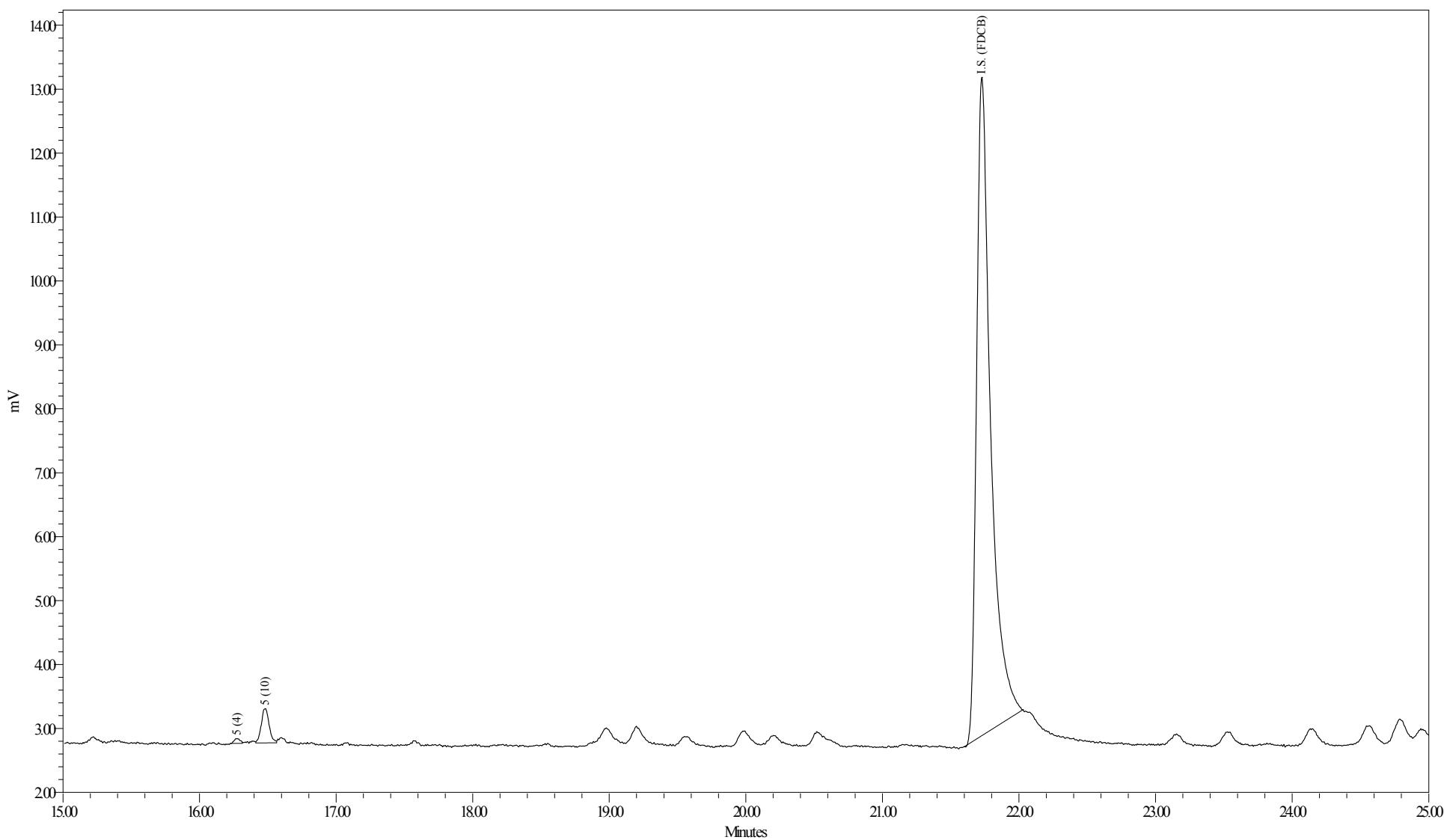
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AS24253RR1
Sample ID: FRS-PE-T150812090652
Date Acquired: 8/24/2015 8:25:27 PM EDT

Sample Amount (L): 7.8400
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-15 [n]

Sample Name: AS24253RR1

1 of 1

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-02RR2
Matrix:	Water	Client ID:	FRS-PE-T150812090652
Sample Wt(Dry)/Vol:	7840 mL	Lab Sample ID:	AS24253RR2
% Moisture:	100	Lab File ID:	GC24-1221-10
Extraction:	8L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 19:34
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 82509

Percent Recovery (50 - 150 %): 130

SAMPLE TOTAL PCB CONCENTRATION: 8.33 ng/L

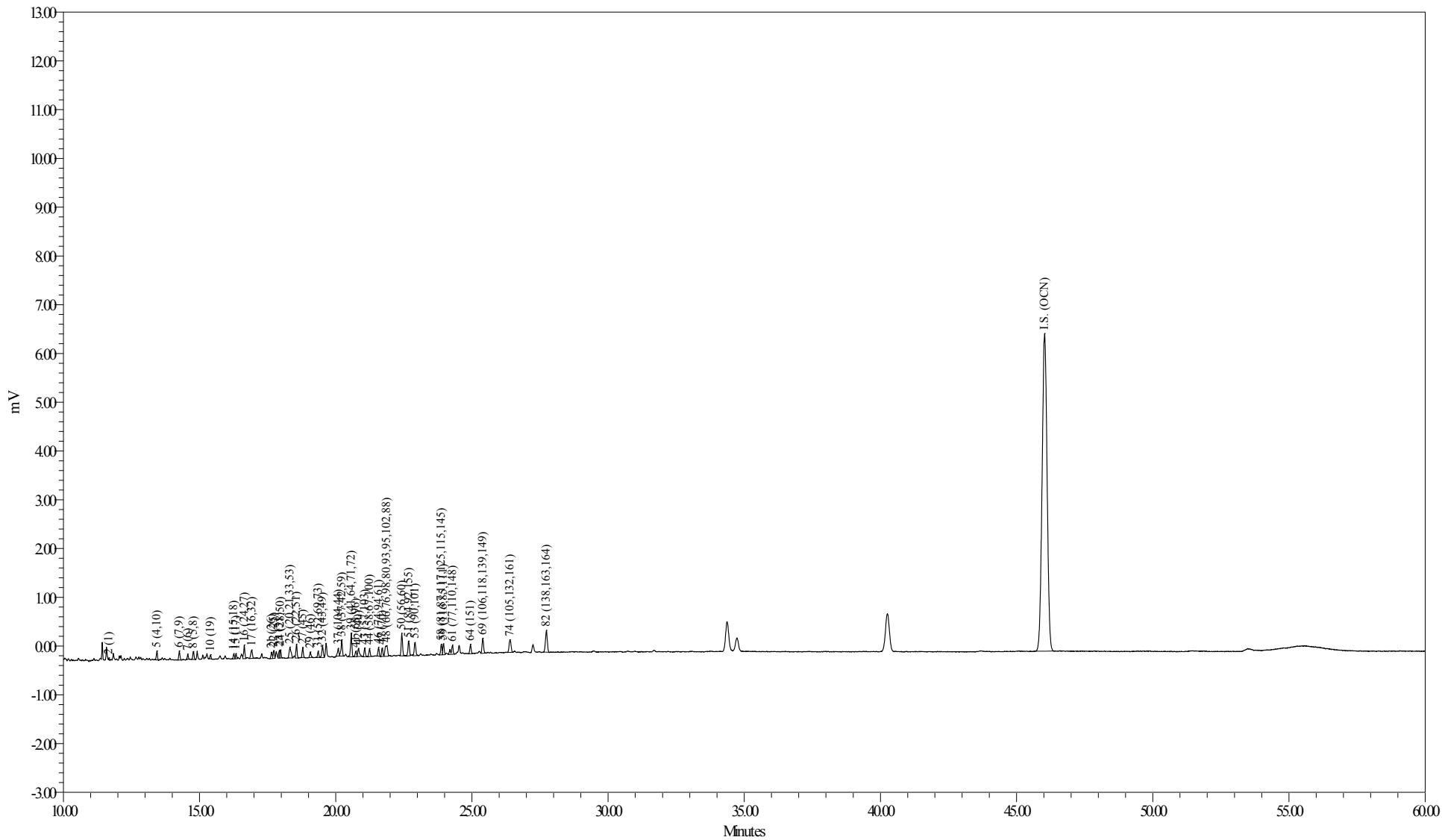
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AS24253RR2
Sample ID: FRS-PE-T150812090652
Date Acquired: 8/25/2015 7:34:10 PM EDT

Sample Amount (L) : 7.8400
Dilution : 5
Processing Method: CSGB LL1X 073115
LIMS File ID: GC24-1221-10 [m]

Sample Name: AS24253RR2

1 of 1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812090652
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 19:34:10
 Lab Sample ID: AS24253RR2
 LRF ID: 15080496-02RR2
 Lab File ID: GC24-1221-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 8.33 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	3.69	5.33
Di	16.18	19.73
Tri	25.70	27.07
Tetra	28.50	26.71
Penta	18.83	15.71
Hexa	7.10	5.44
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.3071	44.4	30.7
A1242	23+24/31+28	0.1911	27.6	19.1
A1254SED	61/100	0.1931	27.9	
A1254BIO	69+75+82/149+153+138	0.5009		50.1
A1260	102/180		0.00	0.00
A1268	115/194		0.00	0.00

Ortho Cl / biphenyl Residue = 1.67

Meta + Para Cl / biphenyl Residue = 1.77

Total Cl / biphenyl Residue = 3.44

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: FRS-PE-T150812090652

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/25/2015 19:34:10

Lab Sample ID: AS24253RR2

LRF ID: 15080496-02RR2

Lab File ID: GC24-1221-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7	68	0.307	1.63	0.0446	0.280	
3	12.70	188.7				0.903	128	U
4	12.80	188.7				0.167	0.167	U
5-4	16.28	223.1	229	0.199	0.891	0.0158	0.0638	
5-10	16.48	223.1	2133	0.290	1.30	0.0121	0.0638	
6	14.26	223.1	574	0.174	0.780	0.0169	0.0280	
7	14.57	223.1	259	0.149	0.667	0.0342	0.0443	
8	14.77	223.1	498	0.510	2.29	0.0460	0.326	
9	15.31	223.1				0.0616	3.19	U
10	15.41	257.5	224	0.0887	0.345	0.0111	0.0131	
11	15.86	257.5				0.0177	3.19	U
12	15.92	223.1				0.0583	3.19	U
13	16.11	223.1				0.00820	0.0124	U
14	16.26	249.0	315	0.101	0.407	0.0140	0.0862	
15	16.34	257.5	309	0.230	0.893	0.0175	0.0862	
16	16.64	257.5	827	0.215	0.837	0.00426	0.00606	
17	16.92	257.5	696	0.302	1.17	0.0183	0.0909	
19	17.34	267.9				0.0251	3.19	U
20	17.51	257.5				0.00287	0.00287	U
21	17.64	257.5	390	0.130	0.504	0.00325	0.0168	
22	17.72	257.5	476	0.130	0.507	0.00346	0.00746	
23	17.93	257.5	449	0.108	0.421	0.0184	0.0961	
24	17.97	257.5	447	0.0826	0.321	0.0169	0.123	J
25	18.32	259.5	1058	0.326	1.26	0.0140	0.0926	
26	18.56	258.7	836	0.275	1.06	0.0136	0.0676	
27	18.79	292.0	606	0.186	0.637	0.00517	0.0207	B
28	18.92	257.5				0.0278	3.19	U
29	19.07	292.0	355	0.124	0.425	0.00652	0.00932	
30	19.18	257.5				0.0253	3.19	U
31	19.36	292.0	403	0.132	0.451	0.0257	0.111	
32	19.52	292.0	886	0.168	0.574	0.0127	0.0536	
33	19.64	292.0				0.0121	0.0233	U
34	19.70	292.0				0.00517	0.0233	U
35	19.84	292.0				0.0208	3.19	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.0232	3.19	U
37	20.09	292.0	564	0.129	0.441	0.0797	0.100	
38	20.22	272.4	1130	0.355	1.30	0.0117	0.0606	
39	20.57	292.0	1623	0.323	1.11	0.0136	0.0956	
41	20.74	326.4	383	0.126	0.386	0.0308	3.19	J
42	20.84	292.0	695	0.173	0.592	0.0153	0.0219	
43	21.06	298.9	578	0.140	0.469	0.0308	3.19	J
44	21.24	298.9	540	0.100	0.336	0.00175	0.00513	B
45	21.40	292.0				0.0103	0.0103	U
46	21.57	292.0	563	0.0685	0.235	0.00888	0.0443	
47	21.70	292.0	576	0.0845	0.289	0.0168	0.0792	
48	21.87	293.5	1435	0.324	1.10	0.0252	0.168	
49	22.13	324.7				0.00961	0.0119	U
50	22.43	292.0	1613	0.303	1.04	0.0347	0.0816	
51	22.68	326.4	1158	0.524	1.60	0.00908	0.0420	B
52	22.78	326.4				0.00693	0.00693	U
53	22.91	326.4	1122	0.221	0.676	0.00756	0.0420	
54	23.12	326.4				0.00279	0.0172	U
55	23.39	326.4				0.000737	0.00131	U
56	23.49	326.4				0.00399	0.00699	U
57	23.71	326.4				0.0272	0.0272	U
58	23.88	326.4	721	0.131	0.401	0.00663	0.0270	
59	23.95	326.4	770	0.121	0.370	0.00295	0.0163	
60	24.17	360.9				0.00386	0.0175	U
61	24.29	326.4	944	0.193	0.592	0.00735	0.0496	
62	24.56	360.9				0.0274	3.19	U
63	24.66	326.4				0.00683	0.0103	U
64	24.95	360.9	637	0.115	0.318	0.00724	0.0396	
65	25.09	350.5				0.00271	0.00676	U
66	25.14	360.9				0.0223	0.0223	U
67	25.21	336.8				0.00335	0.00606	U
68	25.30	326.4				0.0399	3.19	U
69	25.40	337.5	1200	0.187	0.553	0.0117	0.0932	
70	25.51	360.9				0.0247	3.19	U
71	25.80	347.8				0.00287	0.00471	U
72	26.00	336.8				0.00267	0.00267	U
73	26.27	360.9				0.00692	0.00909	U
74	26.40	347.8	1277	0.166	0.476	0.00678	0.0316	
75	26.55	360.9				0.0185	0.0686	U
76	26.65	360.9				0.0199	3.19	U
77	27.08	360.9				0.00515	0.0396	U
78	27.15	395.3				0.00517	0.0340	U
79	27.36	360.9				0.00613	0.00613	U
80	27.51	360.9				0.00109	0.00606	U
82	27.73	360.9	2093	0.314	0.871	0.0122	0.0629	
83	27.90	360.9				0.00470	0.00582	U
84	28.10	360.9				0.000194	0.000603	U
85	28.44	395.3				0.00633	0.0256	U
87	28.74	395.3				0.00356	0.00932	U
88	28.89	395.3				0.0117	0.0839	U
89	29.02	360.9				0.00128	0.00466	U
90	29.19	395.3				0.00819	0.0396	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.00548	0.00548	U
92	29.79	394.3				0.00173	0.0110	U
93	30.17	394.3				0.0101	0.0746	U
94	30.43	394.3				0.00630	0.0396	U
95	30.72	382.2				0.00677	0.0184	U
96	30.97	429.8				0.000796	0.00154	U
98	31.14	395.3				0.00255	0.00255	U
99	31.51	429.8				0.00122	0.00909	U
100	31.74	395.3				0.0583	0.0583	U
101	32.04	429.8				0.00606	0.00606	U
102	32.21	395.3				0.0278	0.142	U
103	32.47	395.3				0.00237	0.00979	U
104	32.77	395.3				0.00159	0.00559	U
105	33.13	429.8				0.00245	0.0100	U
106	34.26	395.3				0.0216	0.0298	U
107	34.52	395.3				0.00817	0.00979	U
108	35.37	429.8				0.00171	0.00559	U
109	35.60	429.8				0.0170	0.0979	U
110	36.13	429.8				0.0189	0.100	U
111	37.26	395.3				0.00217	0.00217	U
112	38.82	429.8				0.00283	0.0129	U
113	39.32	464.2				0.00382	0.0115	U
114	40.24	464.2				0.00539	0.00539	U
115	41.63	429.8				0.00510	0.0420	U
116	42.51	429.8				0.00682	0.00682	U
117	47.59	464.2				0.00193	0.0158	U
118	53.54	498.6				0.000779	0.000779	U

Total Concentration = 8.33 ng/L

1.24 4.20

Total Nanomoles = 0.031

Average Molecular Weight = 272.7

Number of Calibrated Peaks Found = 41

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 82508.6

FDBC Internal Standard Retention Time = 21.73 minutes

FDBC Internal Standard Peak Area = 73951.3

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812090652
 Comment: HUDSON RIVER RAMP; COC150812091434PACE
 Date Acquired: 08/25/2015 19:34:10
 Lab Sample ID: AS24253RR2
 LRF ID: 15080496-02RR2
 Lab File ID: GC24-1221-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2537	2	3.688	5.331
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.28	2:2	004	0.3537	2-2	2.388	2.919
5-10	16.48	2:2	010	0.3580	26	3.480	4.254
6	14.26	2:1	007 009	0.3098	24; 25	2.091	2.556
7	14.57	2:1	006	0.3165	2-3	1.788	2.185
8	14.77	2:1	005 008	0.3209	23; 2-4	6.126	7.489
9	15.31	2:0	014		35	-	-
10	15.41	3:3	019	0.3348	26-2	1.066	1.129
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013		34; 3-4	-	-
14	16.26	2:0 3:2	015 018	0.3532	4-4; 25-2	1.218	1.334
15	16.34	3:2	017	0.3550	24-2	2.762	2.925
16	16.64	3:2	024 027	0.3615	236; 26-3	2.588	2.740
17	16.92	3:2	016 032	0.3676	23-2; 26-4	3.625	3.839
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.51	3:1	029		245	-	-
21	17.64	3:1	026	0.3832	25-3	1.557	1.649
22	17.72	3:1	025	0.3850	24-3	1.567	1.659
23	17.93	3:1	031	0.3895	25-4	1.303	1.380
24	17.97	3:1 4:3	028 050	0.3904	24-4; 246-2	0.993	1.051
25	18.32	3:1 4:3	020 021 033 053	0.3980	23-3; 234; 34-2; 25-26	3.921	4.121
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	3.307	3.486
27	18.79	4:3	045	0.4082	236-2	2.235	2.087
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	1.492	1.393
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073	0.4206	25-25; 246-3; 26-35	1.583	1.478
32	19.52	4:2	043 049	0.4241	235-2; 24-25	2.014	1.881
33	19.64	4:2	038 047		345; 24-24	-	-
34	19.70	4:2	048 075		245-2; 246-4	-	-
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035		34-3	-	-
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	1.548	1.445
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	4.266	4.271

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	3.881	3.625
41	20.74	5:4	068 096	0.4506	24-35; 236-26	1.513	1.264
42	20.84	4:2	040	0.4527	23-23	2.076	1.939
43	21.06	4:1 5:3	057 103	0.4575	235-3; 246-25	1.684	1.537
44	21.24	4:1 5:3	058 067 100	0.4614	23-35; 245-3; 246-24	1.206	1.100
45	21.40	4:1	063		235-4	-	-
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	0.823	0.769
47	21.70	4:1	070	0.4714	25-34	1.015	0.948
48	21.87	4:1 5:3	066 076 098 080 093 095 102 088	0.4751	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.889	3.614
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.43	4:1	056 060	0.4873	23-34; 234-4	3.642	3.401
51	22.68	5:3 6:4	084 092 155	0.4927	236-23; 235-25; 246-246	6.291	5.257
52	22.78	5:3	089		234-26	-	-
53	22.91	5:2	090 101	0.4977	235-24; 245-25	2.650	2.214
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.49	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.71	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	1.574	1.315
59	23.95	5:2	116 085 111	0.5203	23456; 234-24; 235-35	1.449	1.211
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.29	5:2	077 110 148	0.5277	34-34; 236-34; 235-246	2.320	1.938
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151	0.5420	2356-25	1.378	1.041
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.30	5:1	123		345-24	-	-
69	25.40	5:1 6:3	106 118 139 149	0.5518	2345-3; 245-34; 2346-24; 236-245	2.241	1.811
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161	0.5735	234-34; 234-236; 2346-35	1.989	1.559
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.73	6:2	138 163 164	0.6024	234-245; 2356-34; 236-345	3.775	2.853
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 8.33 ng/L

Total Nanomoles = 0.031

Average Molecular Weight = 272.7

Number of Calibrated Peaks Found = 41

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-03
Matrix:	Water	Client ID:	FRS-PE-T150812091325
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AS24254
% Moisture:	100	Lab File ID:	GC24-1219-16
Extraction:	1L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/23/2015 08:44
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 91408

Percent Recovery (50 - 150 %): 144

SAMPLE TOTAL PCB CONCENTRATION: 183 ng/L

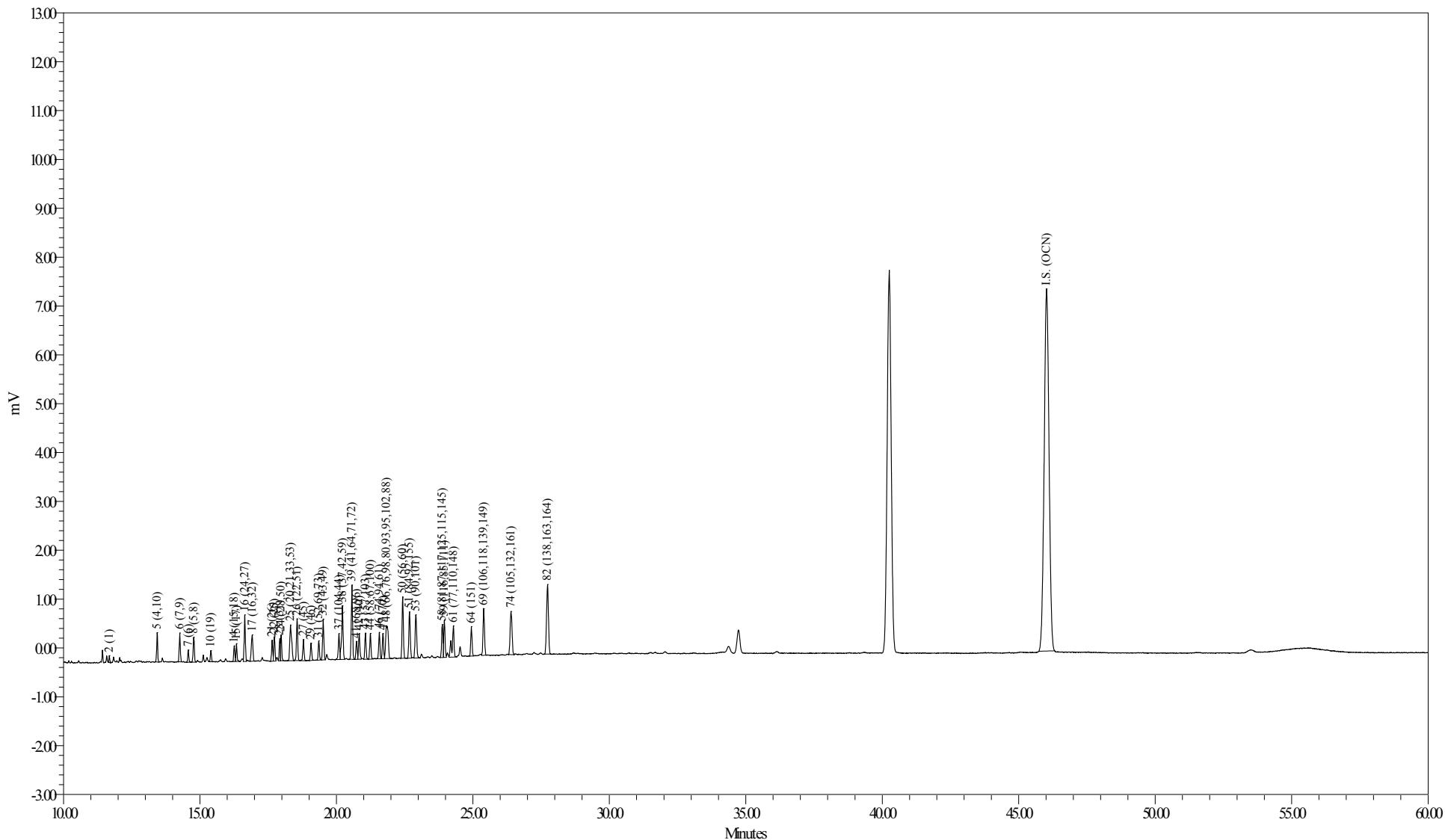
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Amount (L): 1.0400
Dilution: 5
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1219-16 [n]

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-03RR1
Matrix:	Water	Client ID:	FRS-PE-T150812091325
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AS24254RR1
% Moisture:	100	Lab File ID:	GC30-483-5
Extraction:	1L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 11:26
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 81556

Percent Recovery (50 - 150 %): 94.9

SAMPLE TOTAL PCB CONCENTRATION: 183 ng/L

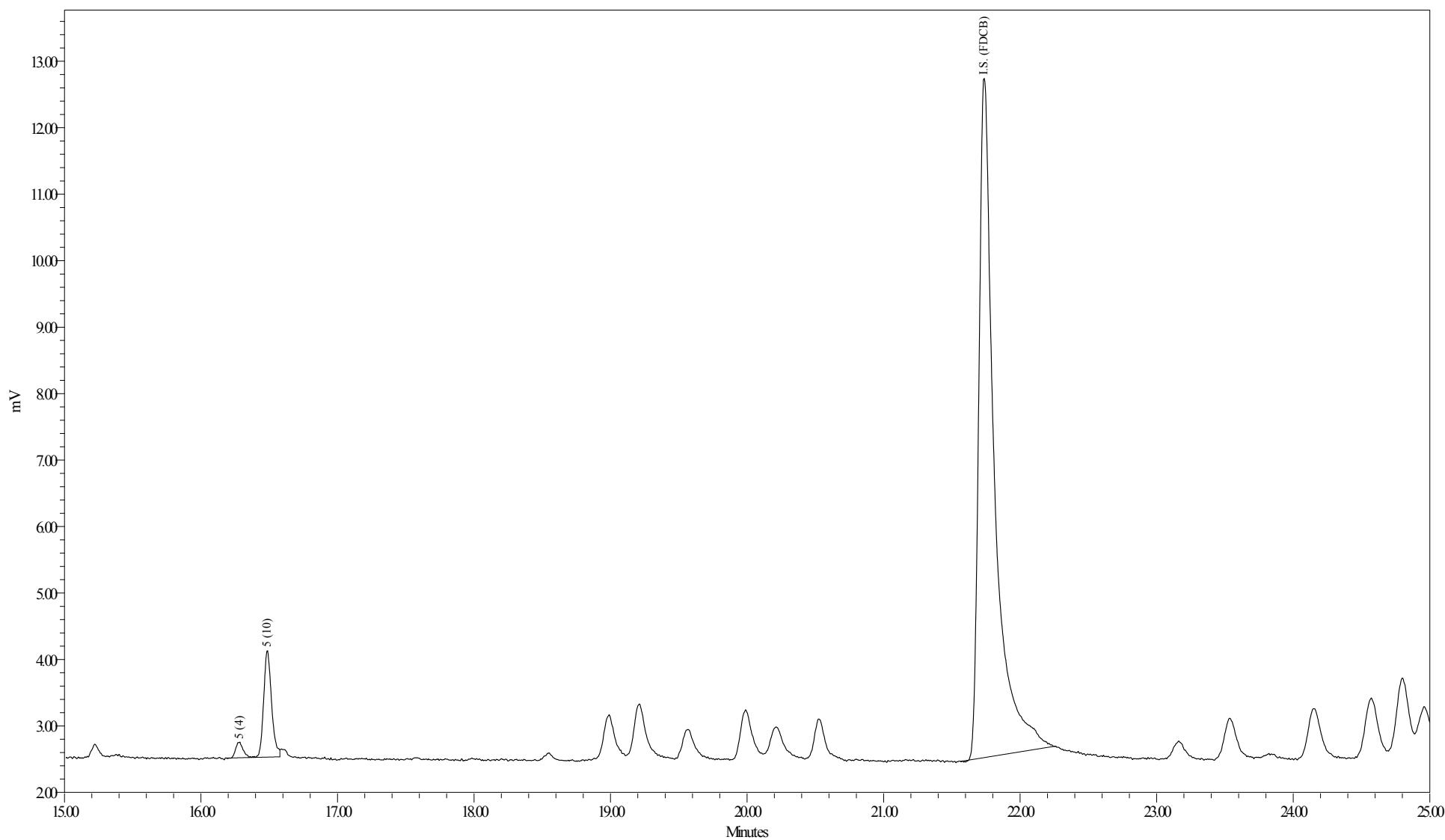
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AS24254RR1
Sample ID: FRS-PE-T150812091325
Date Acquired: 8/24/2015 11:26:57 AMEDT

Sample Amount (L): 1.0400
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-5 [m]

Sample Name: AS24254RR1

1 of 1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812091325
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 08:44:44
 Lab Sample ID: AS24254
 LRF ID: 15080496-03
 Lab File ID: GC24-1219-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 183 ng/L

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
Mono	4.75	6.81	A1221	2/001	8.7037	48.9	35.7
Di	16.57	20.07	A1242	23+24/31+28	4.4661	25.1	18.3
Tri	26.31	27.48	A1254SED	61/100	4.6113	25.9	
Tetra	26.66	24.83	A1254BIO	69+75+82/149+153+138	11.2339		46.0
Penta	18.44	15.27	A1260	102/180		0.00	0.00
Hexa	7.27	5.53	A1268	115/194		0.00	0.00
Hepta	0.00	0.00					
Octa	0.00	0.00					
Nona	0.00	0.00					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.64

Meta + Para Cl / biphenyl Residue = 1.74

Total Cl / biphenyl Residue = 3.38

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: FRS-PE-T150812091325

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/23/2015 08:44:44

Lab Sample ID: AS24254

LRF ID: 15080496-03

Lab File ID: GC24-1219-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7	268	8.70	46.1	0.285	2.19	
3	12.70	188.7				5.51	1000	U
4	12.80	188.7				1.15	1.28	U
5-4	16.28	223.1	892	5.47	24.5	0.150	0.500	
5-10	16.49	223.1	6446	6.27	28.1	0.0742	0.500	
6	14.26	223.1	1643	3.42	15.3	0.0735	0.219	
7	14.57	223.1	626	2.56	11.5	0.311	0.347	
8	14.77	223.1	1568	12.1	54.2	0.426	2.56	
9	15.31	223.1				0.859	25.0	U
10	15.40	257.5	589	1.61	6.24	0.0359	0.102	B
11	15.86	257.5				0.104	25.0	U
12	15.92	223.1				0.396	25.0	U
13	16.11	223.1				0.0396	0.0975	U
14	16.26	249.0	958	2.26	9.07	0.132	0.676	
15	16.34	257.5	1018	5.33	20.7	0.140	0.676	
16	16.64	257.5	2701	4.78	18.6	0.0320	0.0475	
17	16.92	257.5	2168	6.49	25.2	0.121	0.713	B
19	17.34	267.9				0.131	25.0	U
20	17.51	257.5				0.00734	0.0194	U
21	17.65	257.5	1218	2.82	11.0	0.0343	0.132	
22	17.73	257.5	1470	2.76	10.7	0.0219	0.0585	
23	17.93	257.5	1236	2.18	8.48	0.111	0.753	
24	17.98	257.5	1458	2.28	8.86	0.149	0.964	
25	18.32	259.5	3498	7.58	29.2	0.142	0.726	
26	18.56	258.7	2623	6.12	23.7	0.112	0.530	
27	18.79	292.0	1345	2.82	9.66	0.0864	0.163	B
28	18.92	257.5				0.156	25.0	U
29	19.07	292.0	1117	2.67	9.15	0.0356	0.0731	
30	19.18	257.5				0.0623	25.0	U
31	19.35	292.0	1179	2.94	10.1	0.127	0.872	
32	19.52	292.0	2640	3.51	12.0	0.125	0.420	
33	19.64	292.0				0.0782	0.183	U
34	19.70	292.0				0.0415	0.183	U
35	19.84	292.0				0.0582	25.0	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.0934	25.0	U
37	20.09	292.0	1707	2.90	9.92	0.251	0.786	
38	20.22	272.4	4143	9.10	33.4	0.122	0.475	B
39	20.57	292.0	4858	6.71	23.0	0.102	0.749	
41	20.74	326.4	1183	2.65	8.12	0.101	25.0	J
42	20.83	292.0	1753	3.01	10.3	0.0358	0.172	
43	21.06	298.9	1732	2.86	9.56	0.142	25.0	JB
44	21.24	298.9	354	2.53	8.46	0.113	0.201	
45	21.40	292.0				0.0333	0.0384	U
46	21.57	292.0	1667	1.50	5.14	0.0721	0.347	
47	21.70	292.0	1588	1.75	6.00	0.106	0.621	
48	21.83	293.5	4383	7.39	25.2	0.216	1.32	
49	22.13	324.7				0.0239	0.0932	U
50	22.43	292.0	4056	5.15	17.6	0.122	0.640	B
51	22.68	326.4	3388	10.5	32.3	0.0989	0.329	
52	22.78	326.4				0.0132	0.0366	U
53	22.91	326.4	3505	4.82	14.8	0.0430	0.329	
54	23.12	326.4				0.0172	0.135	U
55	23.39	326.4				0.00657	0.0102	U
56	23.49	326.4				0.0251	0.0548	U
57	23.71	326.4				0.0653	0.102	U
58	23.88	326.4	2271	2.88	8.84	0.0479	0.212	
59	23.95	326.4	2491	2.65	8.11	0.0224	0.128	
60	24.17	360.9				0.0379	0.137	U
61	24.28	326.4	3206	4.61	14.1	0.0690	0.389	
62	24.56	360.9				0.116	25.0	U
63	24.66	326.4				0.0268	0.0804	U
64	24.95	360.9	1992	2.55	7.07	0.0497	0.311	
65	25.09	350.5				0.0150	0.0530	U
66	25.14	360.9				0.0349	0.110	U
67	25.21	336.8				0.0198	0.0475	U
68	25.30	326.4				0.158	25.0	U
69	25.40	337.5	3599	4.11	12.2	0.154	0.731	
70	25.51	360.9				0.102	25.0	U
71	25.80	347.8				0.0342	0.0369	U
72	26.00	336.8				0.00525	0.0106	U
73	26.27	360.9				0.0258	0.0713	U
74	26.40	347.8	4265	3.78	10.9	0.0335	0.248	
75	26.55	360.9				0.0829	0.538	U
76	26.65	360.9				0.0915	25.0	U
77	27.08	360.9				0.0445	0.311	U
78	27.15	395.3				0.0542	0.267	U
79	27.36	360.9				0.0298	0.0298	U
80	27.51	360.9				0.00954	0.0475	U
82	27.74	360.9	6854	7.12	19.7	0.0665	0.493	
83	27.90	360.9				0.0310	0.0457	U
84	28.10	360.9				0.00213	0.00473	U
85	28.44	395.3				0.0563	0.201	U
87	28.74	395.3				0.0298	0.0731	U
88	28.89	395.3				0.0923	0.658	U
89	29.02	360.9				0.0213	0.0366	U
90	29.19	395.3				0.0576	0.311	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.0299	0.0299	U
92	29.79	394.3				0.0169	0.0859	U
93	30.17	394.3				0.0993	0.585	U
94	30.43	394.3				0.0637	0.311	U
95	30.72	382.2				0.0406	0.144	U
96	30.97	429.8				0.00708	0.0121	U
98	31.14	395.3				0.00746	0.0139	U
99	31.51	429.8				0.0412	0.0713	U
100	31.74	395.3				0.0559	0.102	U
101	32.04	429.8				0.0147	0.0402	U
102	32.21	395.3				0.156	1.11	U
103	32.47	395.3				0.0395	0.0768	U
104	32.77	395.3				0.0224	0.0438	U
105	33.13	429.8				0.0159	0.0786	U
106	34.26	395.3				0.182	0.234	U
107	34.52	395.3				0.0564	0.0768	U
108	35.37	429.8				0.0234	0.0438	U
109	35.60	429.8				0.0961	0.768	U
110	36.13	429.8				0.176	0.786	U
111	37.26	395.3				0.0207	0.0207	U
112	38.82	429.8				0.0217	0.101	U
113	39.32	464.2				0.0429	0.0903	U
114	40.24	464.2				0.0138	0.0340	U
115	41.63	429.8				0.0710	0.329	U
116	42.51	429.8				0.0762	0.0762	U
117	47.59	464.2				0.0775	0.124	U
118	53.54	498.6				0.00690	0.00690	U

Total Concentration = 183 ng/L

8.13 32.4

Total Nanomoles = 0.677

Average Molecular Weight = 270.7

Number of Calibrated Peaks Found = 41

OCN Internal Standard Retention Time = 46.02 minutes

OCN Internal Standard Peak Area = 91408.1

FDBC Internal Standard Retention Time = 21.74 minutes

FDBC Internal Standard Peak Area = 81555.6

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812091325
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 08:44:44
 Lab Sample ID: AS24254
 LRF ID: 15080496-03
 Lab File ID: GC24-1219-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2538	2	4.749	6.813
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.28	2:2	004	0.3538	2-2	2.982	3.619
5-10	16.49	2:2	010	0.3583	26	3.422	4.152
6	14.26	2:1	007 009	0.3099	24; 25	1.864	2.262
7	14.57	2:1	006	0.3166	2-3	1.399	1.698
8	14.77	2:1	005 008	0.3209	23; 2-4	6.602	8.011
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.877	0.922
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013		34; 3-4	-	-
14	16.26	2:0 3:2	015 018	0.3533	4-4; 25-2	1.233	1.340
15	16.34	3:2	017	0.3551	24-2	2.909	3.058
16	16.64	3:2	024 027	0.3616	236; 26-3	2.610	2.744
17	16.92	3:2	016 032	0.3677	23-2; 26-4	3.540	3.721
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.51	3:1	029		245	-	-
21	17.65	3:1	026	0.3835	25-3	1.539	1.618
22	17.73	3:1	025	0.3853	24-3	1.506	1.583
23	17.93	3:1	031	0.3896	25-4	1.192	1.253
24	17.98	3:1 4:3	028 050	0.3907	24-4; 246-2	1.245	1.309
25	18.32	3:1 4:3	020 021 033 053	0.3981	23-3; 234; 34-2; 25-26	4.137	4.316
26	18.56	3:1 4:3	022 051	0.4033	23-4; 24-26	3.341	3.496
27	18.79	4:3	045	0.4083	236-2	1.538	1.426
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4144	23-26	1.457	1.351
30	19.18	3:0	039		35-4	-	-
31	19.35	4:2	052 069 073	0.4205	25-25; 246-3; 26-35	1.605	1.488
32	19.52	4:2	043 049	0.4242	235-2; 24-25	1.914	1.774
33	19.64	4:2	038 047		345; 24-24	-	-
34	19.70	4:2	048 075		245-2; 246-4	-	-
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035		34-3	-	-
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	1.580	1.465
38	20.22	3:0 4:2	037 042 059	0.4394	34-4; 23-24; 236-3	4.963	4.933

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072	0.4470	234-2; 236-4; 26-34; 25-35	3.659	3.392
41	20.74	5:4	068 096	0.4507	24-35; 236-26	1.446	1.199
42	20.83	4:2	040	0.4526	23-23	1.644	1.524
43	21.06	4:1 5:3	057 103	0.4576	235-3; 246-25	1.559	1.412
44	21.24	4:1 5:3	058 067 100	0.4614	23-35; 245-3; 246-24	1.379	1.249
45	21.40	4:1	063		235-4	-	-
46	21.57	4:1 5:3	074 094 061	0.4687	245-4; 235-26; 2345	0.819	0.759
47	21.70	4:1	070	0.4715	25-34	0.956	0.886
48	21.83	4:1 5:3	066 076 098 080 093 095 102 088	0.4744	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.033	3.720
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.43	4:1	056 060	0.4874	23-34; 234-4	2.808	2.603
51	22.68	5:3 6:4	084 092 155	0.4928	236-23; 235-25; 246-246	5.750	4.769
52	22.78	5:3	089		234-26	-	-
53	22.91	5:2	090 101	0.4978	235-24; 245-25	2.629	2.181
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.49	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.71	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.88	5:2	081 087 117 125 115 145	0.5189	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	1.574	1.305
59	23.95	5:2	116 085 111	0.5204	23456; 234-24; 235-35	1.445	1.198
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.28	5:2	077 110 148	0.5276	34-34; 236-34; 235-246	2.516	2.087
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151	0.5422	2356-25	1.392	1.044
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.30	5:1	123		345-24	-	-
69	25.40	5:1 6:3	106 118 139 149	0.5519	2345-3; 245-34; 2346-24; 236-245	2.245	1.801
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161	0.5737	234-34; 234-236; 2346-35	2.062	1.605
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.74	6:2	138 163 164	0.6028	234-245; 2356-34; 236-345	3.884	2.914
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 183 ng/L

Total Nanomoles = 0.677

Average Molecular Weight = 270.7

Number of Calibrated Peaks Found = 41

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of \pm 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	15080496-03DL2
Matrix:	Water	Client ID:	FRS-PE-T150812091325
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AS24254DL2
% Moisture:	100	Lab File ID:	GC24-1221-11
Extraction:	1L - Solid Phase Extraction	Date Received:	08/13/2015
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 20:39
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	5
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 80956

Percent Recovery (50 - 150 %): 128

SAMPLE TOTAL PCB CONCENTRATION: 183 ng/L

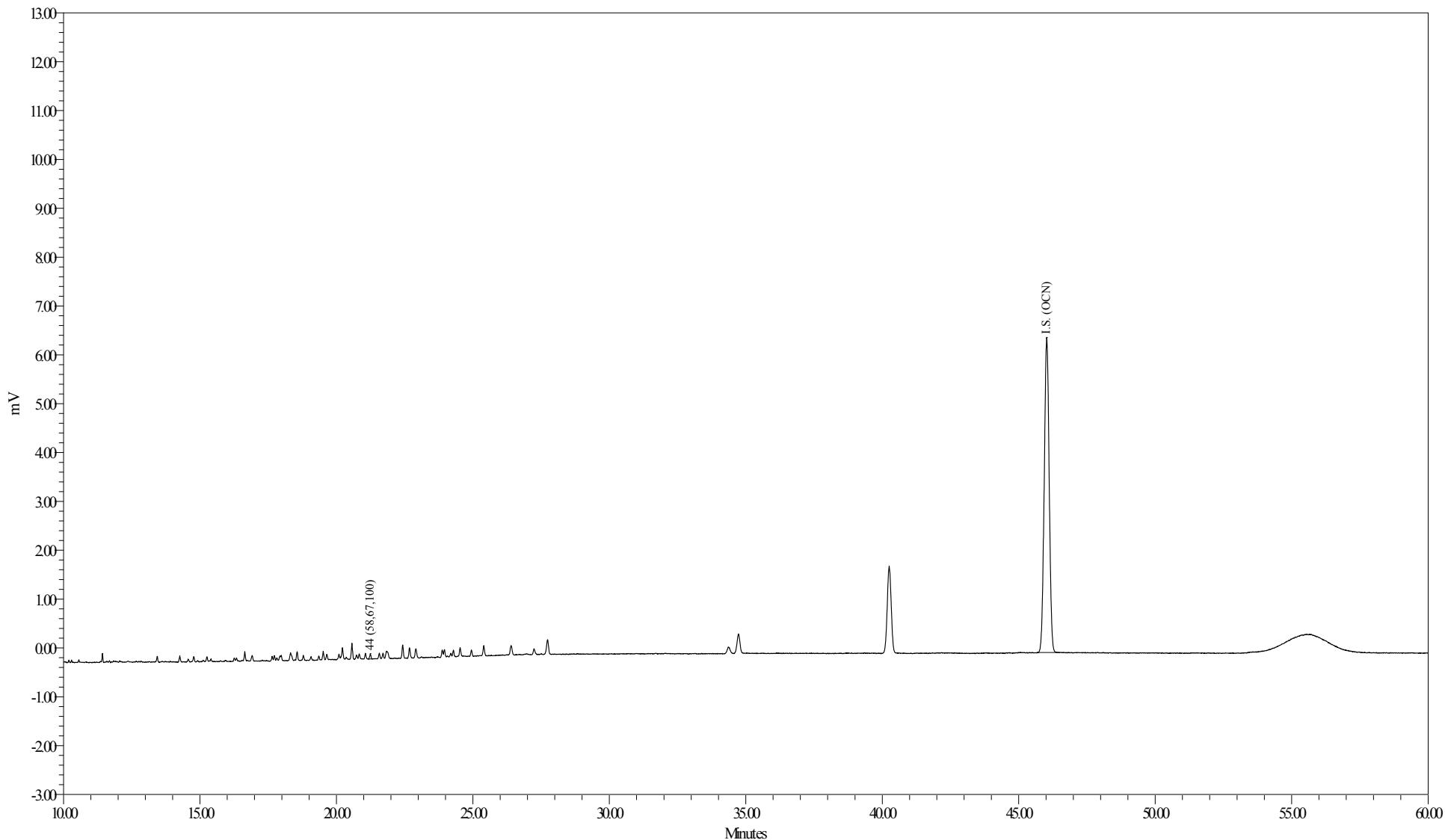
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



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Sample Name: AS24254DL2
Sample ID: FRS-PE-T150812091325
Date Acquired: 8/25/2015 8:39:41 PM EDT

Sample Amount (L): 1.0400
Dilution: 25
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1221-11 [n]

Sample Name: AS24254DL2

1 of 1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812091325
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 20:39:41
 Lab Sample ID: AS24254DL2
 LRF ID: 15080496-03DL2
 Lab File ID: GC24-1221-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 2.53 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	0.00	0.00
Tetra	80.00	80.00
Penta	20.00	20.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221		2/001		
A1242		23+24/31+28		
A1254SED		61/100		
A1254BIO	69+75+82/149+153+138			
A1260		102/180		
A1268		115/194		

Ortho Cl / biphenyl Residue = 1.40

Meta + Para Cl / biphenyl Residue = 2.80

Total Cl / biphenyl Residue = 4.20

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812091325
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 20:39:41
 Lab Sample ID: AS24254DL2
 LRF ID: 15080496-03DL2
 Lab File ID: GC24-1221-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7				1.42	11.0	U
3	12.70	188.7				27.5	5000	U
4	12.80	188.7				5.73	6.40	U
5-4		223.1				0.749	2.50	U
5-10		223.1				0.371	2.50	U
6	14.26	223.1				0.367	1.10	U
7	14.57	223.1				1.56	1.74	U
8	14.76	223.1				2.13	12.8	U
9	15.31	223.1				4.30	125	U
10	15.40	257.5				0.180	0.512	U
11	15.86	257.5				0.519	125	U
12	15.92	223.1				1.98	125	U
13	16.11	223.1				0.198	0.488	U
14	16.26	249.0				0.659	3.38	U
15	16.34	257.5				0.701	3.38	U
16	16.64	257.5				0.160	0.237	U
17	16.91	257.5				0.605	3.56	U
19	17.34	267.9				0.657	125	U
20	17.51	257.5				0.0367	0.0970	U
21	17.65	257.5				0.171	0.658	U
22	17.72	257.5				0.110	0.292	U
23	17.93	257.5				0.553	3.77	U
24	17.98	257.5				0.744	4.82	U
25	18.33	259.5				0.711	3.63	U
26	18.56	258.7				0.560	2.65	U
27	18.80	292.0				0.432	0.813	U
28	18.92	257.5				0.780	125	U
29	19.07	292.0				0.178	0.366	U
30	19.18	257.5				0.311	125	U
31	19.36	292.0				0.636	4.36	U
32	19.52	292.0				0.625	2.10	U
33	19.64	292.0				0.391	0.914	U
34	19.70	292.0				0.208	0.914	U
35	19.84	292.0				0.291	125	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.467	125	U
37	20.10	292.0				1.25	3.93	U
38	20.23	272.4				0.609	2.38	U
39	20.57	292.0				0.508	3.75	U
41	20.74	326.4				0.503	125	U
42	20.84	292.0				0.179	0.859	U
43	21.08	298.9				0.709	125	U
44	21.24	298.9	354	2.53	8.46	0.113	0.201	
45	21.40	292.0				0.166	0.192	U
46	21.57	292.0				0.360	1.74	U
47	21.71	292.0				0.530	3.11	U
48	21.83	293.5				1.08	6.58	U
49	22.13	324.7				0.119	0.466	U
50	22.43	292.0				0.611	3.20	U
51	22.68	326.4				0.494	1.64	U
52	22.78	326.4				0.0659	0.183	U
53	22.92	326.4				0.215	1.64	U
54	23.12	326.4				0.0859	0.676	U
55	23.39	326.4				0.0329	0.0512	U
56	23.49	326.4				0.126	0.274	U
57	23.71	326.4				0.326	0.512	U
58	23.88	326.4				0.240	1.06	U
59	24.03	326.4				0.112	0.640	U
60	24.17	360.9				0.190	0.685	U
61	24.29	326.4				0.345	1.95	U
62	24.56	360.9				0.580	125	U
63	24.66	326.4				0.134	0.402	U
64	24.95	360.9				0.249	1.55	U
65	25.09	350.5				0.0750	0.265	U
66	25.14	360.9				0.175	0.548	U
67	25.21	336.8				0.0989	0.237	U
68	25.30	326.4				0.788	125	U
69	25.40	337.5				0.772	3.65	U
70	25.51	360.9				0.512	125	U
71	25.80	347.8				0.171	0.184	U
72	26.00	336.8				0.0262	0.0532	U
73	26.27	360.9				0.129	0.356	U
74	26.40	347.8				0.168	1.24	U
75	26.55	360.9				0.414	2.69	U
76	26.65	360.9				0.457	125	U
77	27.08	360.9				0.223	1.55	U
78	27.15	395.3				0.271	1.33	U
79	27.36	360.9				0.149	0.149	U
80	27.51	360.9				0.0477	0.237	U
82	27.73	360.9				0.333	2.47	U
83	27.90	360.9				0.155	0.228	U
84	28.10	360.9				0.0107	0.0236	U
85	28.44	395.3				0.281	1.00	U
87	28.74	395.3				0.149	0.366	U
88	28.89	395.3				0.462	3.29	U
89	29.02	360.9				0.107	0.183	U
90	29.19	395.3				0.288	1.55	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.149	0.149	U
92	29.79	394.3				0.0844	0.429	U
93	30.17	394.3				0.496	2.92	U
94	30.43	394.3				0.319	1.55	U
95	30.72	382.2				0.203	0.722	U
96	30.97	429.8				0.0354	0.0605	U
98	31.14	395.3				0.0373	0.0695	U
99	31.51	429.8				0.206	0.356	U
100	31.74	395.3				0.279	0.512	U
101	32.04	429.8				0.0734	0.201	U
102	32.21	395.3				0.782	5.57	U
103	32.47	395.3				0.198	0.384	U
104	32.77	395.3				0.112	0.219	U
105	33.13	429.8				0.0794	0.393	U
106	34.26	395.3				0.911	1.17	U
107	34.52	395.3				0.282	0.384	U
108	35.37	429.8				0.117	0.219	U
109	35.60	429.8				0.481	3.84	U
110	36.13	429.8				0.882	3.93	U
111	37.26	395.3				0.104	0.104	U
112	38.82	429.8				0.108	0.505	U
113	39.32	464.2				0.215	0.452	U
114	40.24	464.2				0.0692	0.170	U
115	41.63	429.8				0.355	1.64	U
116	42.51	429.8				0.381	0.381	U
117	47.59	464.2				0.387	0.621	U
118	53.54	498.6				0.0345	0.0345	U

Total Concentration = 2.53 ng/L

40.2 161

Total Nanomoles = 0.008

Average Molecular Weight = 298.9

Number of Calibrated Peaks Found = 1

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 80955.8

FDBC Internal Standard Retention Time = N/A

FDBC Internal Standard Peak Area = 0.0

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: FRS-PE-T150812091325
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 20:39:41
 Lab Sample ID: AS24254DL2
 LRF ID: 15080496-03DL2
 Lab File ID: GC24-1221-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	2		-	-
3	12.70	1:0	002	3		-	-
4	12.80	1:0	003	4		-	-
5-4		2:2	004	2-2		-	-
5-10		2:2	010	26		-	-
6	14.26	2:1	007 009	24; 25		-	-
7	14.57	2:1	006	2-3		-	-
8	14.76	2:1	005 008	23; 2-4		-	-
9	15.31	2:0	014	35		-	-
10	15.40	3:3	019	26-2		-	-
11	15.86	3:2	030	246		-	-
12	15.92	2:0	011	3-3		-	-
13	16.11	2:0	012 013	34; 3-4		-	-
14	16.26	2:0 3:2	015 018	4-4; 25-2		-	-
15	16.34	3:2	017	24-2		-	-
16	16.64	3:2	024 027	236; 26-3		-	-
17	16.91	3:2	016 032	23-2; 26-4		-	-
19	17.34	3:1 4:4	023 034 054	235; 35-2; 26-26		-	-
20	17.51	3:1	029	245		-	-
21	17.65	3:1	026	25-3		-	-
22	17.72	3:1	025	24-3		-	-
23	17.93	3:1	031	25-4		-	-
24	17.98	3:1 4:3	028 050	24-4; 246-2		-	-
25	18.33	3:1 4:3	020 021 033 053	23-3; 234; 34-2; 25-26		-	-
26	18.56	3:1 4:3	022 051	23-4; 24-26		-	-
27	18.80	4:3	045	236-2		-	-
28	18.92	3:0	036	35-3		-	-
29	19.07	4:3	046	23-26		-	-
30	19.18	3:0	039	35-4		-	-
31	19.36	4:2	052 069 073	25-25; 246-3; 26-35		-	-
32	19.52	4:2	043 049	235-2; 24-25		-	-
33	19.64	4:2	038 047	345; 24-24		-	-
34	19.70	4:2	048 075	245-2; 246-4		-	-
35	19.84	4:2	062 065	2346; 2356		-	-
36	19.92	3:0	035	34-3		-	-
37	20.10	5:4 4:2	104 044	246-26; 23-25		-	-
38	20.23	3:0 4:2	037 042 059	34-4; 23-24; 236-3		-	-

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-
41	20.74	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040		23-23	-	-
43	21.08	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.24	4:1 5:3	058 067 100	0.4614	23-35; 245-3; 246-24	100.000	100.000
45	21.40	4:1	063		235-4	-	-
46	21.57	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.71	4:1	070		25-34	-	-
48	21.83	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.43	4:1	056 060		23-34; 234-4	-	-
51	22.68	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.78	5:3	089		234-26	-	-
53	22.92	5:2	090 101		235-24; 245-25	-	-
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.49	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.71	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.88	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.03	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.29	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151		2356-25	-	-
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.30	5:1	123		345-24	-	-
69	25.40	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.73	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 2.53 ng/L

Total Nanomoles = 0.008

Average Molecular Weight = 298.9

Number of Calibrated Peaks Found = 1

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

SAMPLE GC INJECTION LOG (GC24)

10



Sample Set Name: GC24_CC_073115
 Project Name: GC24_Jan_2015
 Sample Set Start Date: 07/31/2015 22:56:15
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150731B06	1.000	1.00	1	07/31/2015 22:56:15
2	ICAL 6.25 ng/mL	Unknown	ICAL0731A	1.000	1.00	1	08/01/2015 00:01:53
3	ICAL 12.5 ng/mL	Unknown	ICAL0731B	1.000	1.00	1	08/01/2015 01:07:28
4	ICAL 125 ng/mL	Unknown	ICAL0731C	1.000	1.00	1	08/01/2015 02:13:05
5	ICAL 314 ng/mL	Unknown	ICAL0731D	1.000	1.00	1	08/01/2015 03:18:39
6	ICAL 627 ng/mL	Unknown	ICAL0731E	1.000	1.00	1	08/01/2015 04:24:16
7	ICAL 1254 ng/mL	Unknown	ICAL0731F	1.000	1.00	1	08/01/2015 05:30:05
8	SUP CONG STD 200/5 ng/ml	Unknown	SC0731A	1.000	1.00	1	08/01/2015 07:41:14
9	Surr TCMX/DCBP 5/50 ppb	Unknown	TD0731A	1.000	1.00	1	08/01/2015 08:46:53
10	Surr Std (207) 2.0 ng/mL	Unknown	SS0731A	1.000	1.00	1	08/01/2015 09:52:33
11	Surr Std (207) 20.0 ng/mL	Unknown	SS0731B	1.000	1.00	1	08/01/2015 10:58:09
12	HEXANE BLANK	Unknown	150731B08	1.000	1.00	1	08/01/2015 12:03:45
13	CCC Std 122 ng/mL	Unknown	CCCS0731A	1.000	1.00	1	08/01/2015 13:09:21



Sample Set Name: GC24_082415
 Project Name: GC24_Jan_2015
 Sample Set Start Date: 08/24/2015 16:14:36
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150824B03	1.000	1.00	1	08/24/2015 16:14:36
2	CCC Std 122 ng/mL	Unknown	CCCS0824C	1.000	1.00	1	08/25/2015 06:27:13
3	METHOD BLANK	Unknown	AS25405B	0.001	1.00	1	08/25/2015 07:32:43
4	ZZZZZ	Unknown	ZZZZZ	0.001	1.00	1	08/25/2015 08:38:18



Sample Set Name: GC24_082515a
 Project Name: GC24_Jan_2015
 Sample Set Start Date: 08/25/2015 09:43:53
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AS24847BRR2	8.000	5.00	5	08/25/2015 09:43:53
2	LAB CONTROL SPIKE	Unknown	AS24847LRR2	8.000	5.00	5	08/25/2015 10:49:29
3	ZZZZZ	Unknown	ZZZZZ	8.030	5.00	5	08/25/2015 11:55:02
4	ZZZZZ	Unknown	ZZZZZ	8.160	5.00	5	08/25/2015 13:00:38
5	ZZZZZ	Unknown	ZZZZZ	8.190	5.00	5	08/25/2015 14:06:29
6	ZZZZZ	Unknown	ZZZZZ	8.320	5.00	5	08/25/2015 15:12:06
7	ZZZZZ	Unknown	ZZZZZ	8.060	5.00	5	08/25/2015 16:17:39
8	CCC Std 122 ng/mL	Unknown	CCCS0825A	1.000	1.00	1	08/25/2015 17:23:10
9	FRS-FDBL-T150812090920	Unknown	AS24252RR2	7.780	5.00	5	08/25/2015 18:28:40
10	FRS-PE-T150812090652	Unknown	AS24253RR2	7.840	5.00	5	08/25/2015 19:34:10
11	FRS-PE-T150812091325	Unknown	AS24254DL2	1.040	25.00	5	08/25/2015 20:39:41
12	CCC Std 122 ng/mL	Unknown	CCCS0825B	1.000	1.00	1	08/25/2015 21:45:09



Sample Set Name: GC24_082215
 Project Name: GC24_Jan_2015
 Sample Set Start Date: 08/22/2015 18:32:25
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150822B03	1.000	1.00	1	08/22/2015 18:32:25
2	CCC Std 122 ng/mL	Unknown	CCCS0822A	1.000	1.00	1	08/22/2015 19:37:57
3	METHOD BLANK	Unknown	AS24666B	1.000	5.00	5	08/22/2015 20:43:30
4	LAB CONTROL SPIKE	Unknown	AS24666L	1.000	5.00	5	08/22/2015 21:49:03
5	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/22/2015 22:54:36
6	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	08/23/2015 00:00:09
7	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	08/23/2015 01:05:43
8	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/23/2015 02:11:18
9	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	08/23/2015 03:16:50
10	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	08/23/2015 04:22:37
11	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/23/2015 05:28:10
12	CCC Std 122 ng/mL	Unknown	CCCS0822B	1.000	1.00	1	08/23/2015 06:33:41
13	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/23/2015 07:39:13
14	FRS-PE-T150812091325	Unknown	AS24254	1.040	5.00	5	08/23/2015 08:44:44
15	CCC Std 122 ng/mL	Unknown	CCCS0822C	1.000	1.00	1	08/23/2015 10:55:53



Project Name: GC24_Jan_2015
Sample Set Name: GC24_082515a
Date Printed: 8/27/2015

Operating Conditions Gas Chromatography

User Name: Jared Acker Injection Method: Splitless
Sample Size: 0.5 uL Column Type: Capillary

Temperature Information

Column Temperature: Program
Injector Temperature: 300 °C
Detector Temperature: 300 °C

Column Temperature Information

Initial Temperature: 50 °C Hold: 2.5 min
Temperature Program: 15 °C/min
Intermediate Temperature: 150 °C
Temperature Program: 4.3 °C/min
Final Temperature: 220 °C Hold: 35.1 min

Column Information

Column ID: Phenomenex ZB-1 30m, 0.25mm ID, 0.25 μm
Material: Fused Silica
Length: 30 meter
Internal Diameter: 0.25mm
Carrier Gas: Helium Make-up Gas: Nitrogen
Flow Pressure: 22.2 Make-up Flow: 70 mL/min
Split Ratio: None

Detector Information

Detector Name: Detector 1 GC24 Detector Type: ECD Detector Range: 4

SAMPLE GC INJECTION LOG (GC30)



Sample Set Name: GC30_CC_052015
 Project Name: GC30_Jan_2015
 Sample Set Start Date: 05/20/2015 23:04:57
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150520B05	1.000	1.00	1	05/20/2015 23:04:57
2	IUPAC 4-10 0.100 ng/mL	Unknown	ICBZ0520A	1.000	1.00	1	05/20/2015 23:52:11
3	IUPAC 4-10 0.500 ng/mL	Unknown	ICBZ0520B	1.000	1.00	1	05/21/2015 00:39:28
4	IUPAC 4-10 5.0 ng/mL	Unknown	ICBZ0520C	1.000	1.00	1	05/21/2015 01:26:42
5	IUPAC 4-10 25.0 ng/mL	Unknown	ICBZ0520D	1.000	1.00	1	05/21/2015 02:13:57
6	IUPAC 4-10 50.0 ng/mL	Unknown	ICBZ0520E	1.000	1.00	1	05/21/2015 03:01:06
7	HEXANE BLANK	Unknown	150520B06	1.000	1.00	1	05/21/2015 03:48:18
8	CCCS Std 25.0 ng/mL	Unknown	CCCS0520AA	1.000	1.00	1	05/21/2015 04:35:25



Sample Set Name: GC30_082415a
 Project Name: GC30_Jan_2015
 Sample Set Start Date: 08/24/2015 09:52:10
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150824B03	1.000	1.00	1	08/24/2015 09:52:10
2	CCCS Std 25.0 ng/mL	Unknown	CCCS0824AA	1.000	1.00	1	08/24/2015 10:39:31
3	FRS-PE-T150812091325	Unknown	AS24254RR1	1.040	5.00	5	08/24/2015 11:26:57
4	CCCS Std 25.0 ng/mL	Unknown	CCCS0824AB	1.000	1.00	1	08/24/2015 12:14:19
5	METHOD BLANK	Unknown	AS24847BRR1	8.000	5.00	5	08/24/2015 14:06:04
6	LAB CONTROL SPIKE	Unknown	AS24847LRR1	8.000	5.00	5	08/24/2015 14:53:25
7	ZZZZZ	Unknown	ZZZZZ	8.030	5.00	5	08/24/2015 15:40:54
8	ZZZZZ	Unknown	ZZZZZ	8.160	5.00	5	08/24/2015 16:28:18
9	ZZZZZ	Unknown	ZZZZZ	8.190	5.00	5	08/24/2015 17:15:45
10	ZZZZZ	Unknown	ZZZZZ	8.320	5.00	5	08/24/2015 18:03:06
11	ZZZZZ	Unknown	ZZZZZ	8.060	5.00	5	08/24/2015 18:50:34
12	FRS-FDBL-T150812090920	Unknown	AS24252RR1	7.780	5.00	5	08/24/2015 19:37:56
13	FRS-PE-T150812090652	Unknown	AS24253RR1	7.840	5.00	5	08/24/2015 20:25:27
14	CCCS Std 25.0 ng/mL	Unknown	CCCS0824AC	1.000	1.00	1	08/24/2015 21:12:47



Sample Set Name: GC30_082215
 Project Name: GC30_Jan_2015
 Sample Set Start Date: 08/22/2015 17:59:02
 Date Printed: 8/27/2015
 Report Name: CSGB_SSReport (Lims)

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150822B03	1.000	1.00	1	08/22/2015 17:59:02
2	CCCS Std 25.0 ng/mL	Unknown	CCCS0822AA	1.000	1.00	1	08/22/2015 18:46:21
3	METHOD BLANK	Unknown	AS24666BRR1	1.000	5.00	5	08/22/2015 19:33:44
4	LAB CONTROL SPIKE	Unknown	AS24666LRR1	1.000	5.00	5	08/22/2015 20:21:03
5	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/22/2015 21:08:27
6	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	08/22/2015 21:55:47
7	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	08/22/2015 22:43:10
8	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/22/2015 23:30:31
9	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	08/23/2015 00:17:56
10	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	08/23/2015 01:05:15
11	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/23/2015 01:52:39
12	CCCS Std 25.0 ng/mL	Unknown	CCCS0822AB	1.000	1.00	1	08/23/2015 02:39:59
13	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/23/2015 03:27:28
14	CCCS Std 25.0 ng/mL	Unknown	CCCS0822AC	1.000	1.00	1	08/23/2015 04:14:45



Project Name: GC30_Jan_2015
Sample Set Name: GC30_082415a
Date Printed: 8/27/2015

Operating Conditions Gas Chromatography

User Name: Jared Acker Injection Method: Splitless
Sample Size: 1.0 uL Column Type: Capillary

Temperature Information

Column Temperature: Program
Injector Temperature: 275 °C
Detector Temperature: 300 °C

Column Temperature Information

Initial Temperature: 50 °C Hold: 0 min
Temperature Program: 15 °C/min
Intermediate Temperature: 150 °C
Temperature Program: 0.8 °C/min
Final Temperature: 164 °C Hold: 12 min

Column Information

Column ID: Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm
Material: Fused Silica
Length: 50 meter
Internal Diameter: 0.25mm
Carrier Gas: Helium Make-up Gas: Nitrogen
Flow Pressure: 26.0 psi Make-up Flow: 70 mL/ min
Split Ratio: None

Detector Information

Detector Name: Detector 1 GC30 Detector Type: ECD Detector Range: 3

STANDARDS SUMMARY TABLE (GC24)

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com

Sample Set Name:	GC24_CC_073115
Project Name:	GC24_Jan_2015
Sample Set Start Date:	7/31/2015 1:39:43 PM EDT
Current Date:	8/1/2015
Report Name:	CSGB_SSReport

Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	150731B06	1.000	1.00	1	7/31/2015 10:56:15 PM EDT
2	ICAL 6.25 ng/mL	Standard	ICAL0731A	1.000	1.00	1	8/1/2015 12:01:53 AM EDT
3	ICAL 12.5 ng/mL	Standard	ICAL0731B	1.000	1.00	1	8/1/2015 1:07:28 AM EDT
4	ICAL 125 ng/mL	Standard	ICAL0731C	1.000	1.00	1	8/1/2015 2:13:05 AM EDT
5	ICAL 314 ng/mL	Standard	ICAL0731D	1.000	1.00	1	8/1/2015 3:18:39 AM EDT
6	ICAL 627 ng/mL	Standard	ICAL0731E	1.000	1.00	1	8/1/2015 4:24:16 AM EDT
7	ICAL 1254 ng/mL	Standard	ICAL0731F	1.000	1.00	1	8/1/2015 5:30:05 AM EDT
8	SUP CONG STD 200/5 ng/ml	Standard	SC0731A	1.000	1.00	1	8/1/2015 7:41:14 AM EDT
9	Surr TCMX/DCBP 5/50 ppb	Standard	TD0731A	1.000	1.00	1	8/1/2015 8:46:53 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0731A	1.000	1.00	1	8/1/2015 9:52:33 AM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0731B	1.000	1.00	1	8/1/2015 10:58:09 AM EDT
12	CCC Std 122 ng/mL	Unknown	CCCS0731A	1.000	1.00	1	8/1/2015 1:09:21 PM EDT

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com

Sample Set Name: GC24_CC_072515
Project Name: GC24_Jan_2015
Sample Set Start Date: 7/25/2015 1:52:32 PM EDT
Current Date: 7/30/2015
Report Name: CSGB_SumRpt_OCNArea

ICAL OCN Area Summary Report

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0725A	ICAL 6.25 ng/mL	7/25/2015 7:35:32 PM EDT	77423
2	ICAL0725B	ICAL 12.5 ng/mL	7/25/2015 8:41:08 PM EDT	78881
3	ICAL0725C	ICAL 125 ng/mL	7/25/2015 9:46:44 PM EDT	71380
4	ICAL0725D	ICAL 314 ng/mL	7/25/2015 10:52:22 PM EDT	80042
5	ICAL0725E	ICAL 627 ng/mL	7/25/2015 11:57:59 PM EDT	85065
6	ICAL0725F	ICAL 1254 ng/mL	7/26/2015 1:03:35 AM EDT	82332
7	SC0725A	SUP CONG STD 200/5 ng/ml	7/26/2015 3:15:01 AM EDT	80754
Mean				79411

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com

System Name:	Instrument_24	Date Calibrated:	8/1/2015 7:52:03 PM EDT
Sample Set Name:	GC24_CC_073115	Method Report:	CSGB CCSum by RF
Sample Set Date:	7/31/2015 1:39:43 PM EDT	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115		

Calibration Component Summary Table
Component Summary For RF

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0731A	0.031909		0.018158	0.077639	0.489256	0.277975	0.141022				
2	ICAL0731B	0.027094		0.017650	0.073445	0.437185	0.255183	0.129961		0.374369		
3	ICAL0731C	0.032408		0.019578	0.079195	0.518110	0.255732	0.136165		0.370228		
4	ICAL0731D	0.027600		0.015919	0.065982	0.436766	0.215176	0.111783		0.345830		
5	ICAL0731E				0.066649					0.370816		
6	ICAL0731F									0.335997		
7	SC0731A		0.003878						0.173628		0.619817	0.058966
Mean		0.030	0.004	0.018	0.073	0.470	0.251	0.130	0.174	0.359	0.620	0.059
Std. Dev.		0.003		0.002	0.006	0.040	0.026	0.013		0.017		
% RSD		9.39		8.47	8.40	8.56	10.42	9.86		4.83		

Calibration Component Summary Table
Component Summary For RF

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.440494	0.207317	0.477265	0.329019			0.478666	0.561821	0.580238	0.656094
2	0.291651	0.386614	0.176913	0.524697	0.314487		0.440193	0.480604	0.573048	0.520603	0.610424
3	0.272294	0.447005	0.200507	0.608941	0.357446		0.457805	0.464161	0.579205	0.588209	0.643325
4	0.319750	0.370878	0.172546	0.520575	0.302648		0.393327	0.389984	0.483174	0.492503	0.526467
5				0.551224							
6				0.532628							
7						0.384236					
Mean	0.295	0.411	0.189	0.536	0.326	0.384	0.430	0.453	0.549	0.545	0.609
Std. Dev.	0.024	0.038	0.017	0.043	0.024		0.033	0.043	0.045	0.046	0.058
% RSD	8.10	9.28	9.07	8.08	7.25		7.74	9.46	8.13	8.51	9.58

Calibration Component Summary Table
Component Summary For RF

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.488555	0.479646	0.455828		0.382790		0.415533	0.792959	1.196959	0.705760	
2	0.456127	0.448752	0.459115		0.446251		0.394700	0.720175	1.185858	0.710540	
3	0.494825	0.457012	0.499541		0.421675		0.418277	0.817195	1.215571	0.785889	
4	0.414038	0.383276	0.438556		0.391025		0.340474	0.669885	0.980376	0.650721	
5											
6											
7				0.301454		0.291801					0.726662

Calibration Component Summary Table
Component Summary For RF

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
Mean	0.463	0.442	0.463	0.301	0.410	0.292	0.392	0.750	1.145	0.713	0.727
Std. Dev.	0.037	0.041	0.026		0.029		0.036	0.067	0.110	0.056	
% RSD	7.99	9.36	5.57		7.10		9.20	9.00	9.63	7.79	

Calibration Component Summary Table
Component Summary For RF

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.625365	0.507860	0.739883		0.590038			0.756738	1.182554
2		0.556204	0.456654	0.671133		0.659568		0.714227	0.796479	1.079399
3		0.612945	0.503983	0.791373		0.618114		0.856275	0.819779	1.174701
4		0.512848	0.406531	0.647824		0.527078		0.717401	0.721204	0.959851
5										
6										
7	0.282048				0.426968		0.579609			
Mean	0.282	0.577	0.469	0.713	0.427	0.599	0.580	0.763	0.774	1.099
Std. Dev.		0.052	0.048	0.065		0.056		0.081	0.044	0.104
% RSD		9.05	10.15	9.19		9.29		10.64	5.63	9.46

Calibration Component Summary Table
Component Summary For RF

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)	55 (119,150)
1	0.935318		0.648426	0.630900	0.726795	0.321264		0.788658	1.139014
2	0.844747		0.622775	0.574445	0.752783	0.359358	0.485498	0.749691	1.139949
3	0.948037		0.626724	0.669266	0.717274	0.348712	0.496502	0.793437	1.190152
4	0.770511		0.511899	0.542636	0.772804	0.290828	0.491666	0.649878	0.991917
5									
6									
7									
Mean	0.875		0.602	0.604	0.742	0.330	0.491	0.745	1.115
Std. Dev.	0.083		0.061	0.057	0.025	0.031	0.006	0.067	0.086
% RSD	9.52		10.19	9.37	3.40	9.29	1.12	8.94	7.68
									8.07

Calibration Component Summary Table
Component Summary For RF

	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)
1		0.880749		0.821873	0.833771	0.825691	0.752515	
2	0.564471	0.842315		0.825348	0.865313	0.786264	0.688668	
3	0.592034	0.963038		0.846503	1.002123	0.837508	0.747552	
4	0.526647	0.819252		0.707554	0.860982	0.713608	0.624144	
5								
6								
7								0.671541
Mean	0.561	0.876		0.800	0.891	0.791	0.703	0.672
Std. Dev.	0.033	0.063		0.063	0.076	0.056	0.060	0.081
% RSD	5.85	7.20		7.85	8.50	7.07	8.56	9.29

Calibration Component Summary Table
Component Summary For RF

	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)
1	0.857771	1.403706	0.422729			0.958915		0.716627	
2	0.761624	1.307724	0.405844	0.773179		0.879435		0.785266	1.012215
3	0.837632	1.340323	0.446374	0.754678		0.928779		0.720143	1.014182
4	0.694024	1.277340	0.375660	0.649790		0.760288		0.720867	1.079261
5									
6									
7				0.731584		0.755709			
Mean	0.788	1.332	0.413	0.726	0.732	0.882	0.756	0.736	1.035
Std. Dev.	0.075	0.054	0.030	0.067		0.087		0.033	0.038
% RSD	9.52	4.06	7.21	9.17		9.91		4.50	3.69

Calibration Component Summary Table
Component Summary For RF

	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)
1	0.931263	1.047714	1.141745		0.601228	0.690147		1.644915	0.948392
2	1.021323	1.078768	1.115335		0.625693	0.670321	0.306487	1.387997	0.974361
3	0.924141	1.213931	1.152555		0.624950	0.810752	0.326526	1.691128	1.035344
4	0.799794	1.025457	0.934116		0.573156	0.719105	0.325559	1.433207	0.870274
5									
6									
7				0.650637					
Mean	0.919	1.091	1.086	0.651	0.606	0.723	0.320	1.539	0.957
Std. Dev.	0.091	0.085	0.102		0.025	0.062	0.011	0.151	0.068
% RSD	9.90	7.74	9.43		4.09	8.59	3.54	9.81	7.15

Calibration Component Summary Table
Component Summary For RF

	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)
1	1.054083		0.518650		1.004185		0.954246		1.236210	0.977990
2	0.925961	3.621444	0.467349	0.427456	1.000849	1.207322	0.879528	0.892925	1.114438	0.870335
3	1.015472	3.174054	0.550385	0.461667	1.020050	1.318217	0.939146	0.901861	1.333640	0.984409
4	0.908655	3.024693	0.456063	0.443180	0.851654	1.255004	0.824931	0.801188	1.178168	0.824814
5										
6										
7										
Mean	0.976	3.273	0.498	0.444	0.969	1.260	0.899	0.865	1.216	0.914
Std. Dev.	0.070	0.311	0.044	0.017	0.079	0.056	0.059	0.056	0.093	0.079
% RSD	7.17	9.49	8.88	3.86	8.13	4.41	6.59	6.44	7.66	8.68

Calibration Component Summary Table
Component Summary For RF

	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)
1	0.763383	0.724110	6.074691		0.837384	0.755196		1.230502	0.635386	
2	0.752367	0.693334	5.816996	0.990943	0.662657	0.860661	0.649200	1.052660	0.710047	0.738630
3	0.856454	0.855347	6.557709	0.999084	0.761657	0.767076	0.615204	1.151747	0.808133	0.649694
4	0.725351	0.761461	5.469082	0.963845	0.718833	0.674468	0.567614	0.981801	0.732617	0.739662

Calibration Component Summary Table
Component Summary For RF

	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)
5										
6										
7										
Mean	0.774	0.759	5.980	0.985	0.745	0.764	0.611	1.104	0.722	0.709
Std. Dev.	0.057	0.070	0.458	0.018	0.074	0.076	0.041	0.109	0.071	0.052
% RSD	7.36	9.26	7.67	1.87	9.89	9.98	6.71	9.90	9.86	7.28

Calibration Component Summary Table
Component Summary For RF

	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)
1	0.936288	1.620312	1.548090		0.578335	0.743975		1.625648			1.488464
2	0.913423	1.373929	1.303600	0.943332	0.617708	0.683957	0.867319	1.814406	0.606673	1.015777	1.284721
3	0.925124	1.714373	1.396296	1.049255	0.660642	0.725770	0.878998	1.833230	0.547735	1.133655	1.579389
4	0.799339	1.677965	1.310714	0.992699	0.566927	0.629349	0.904458	1.663320	0.514058	1.103301	1.374917
5											
6											
7											
Mean	0.894	1.597	1.390	0.995	0.606	0.696	0.884	1.734	0.556	1.084	1.432
Std. Dev.	0.063	0.153	0.114	0.053	0.042	0.051	0.019	0.105	0.047	0.061	0.129
% RSD	7.11	9.61	8.18	5.33	7.01	7.32	2.15	6.05	8.43	5.65	9.00

Calibration Component Summary

Table

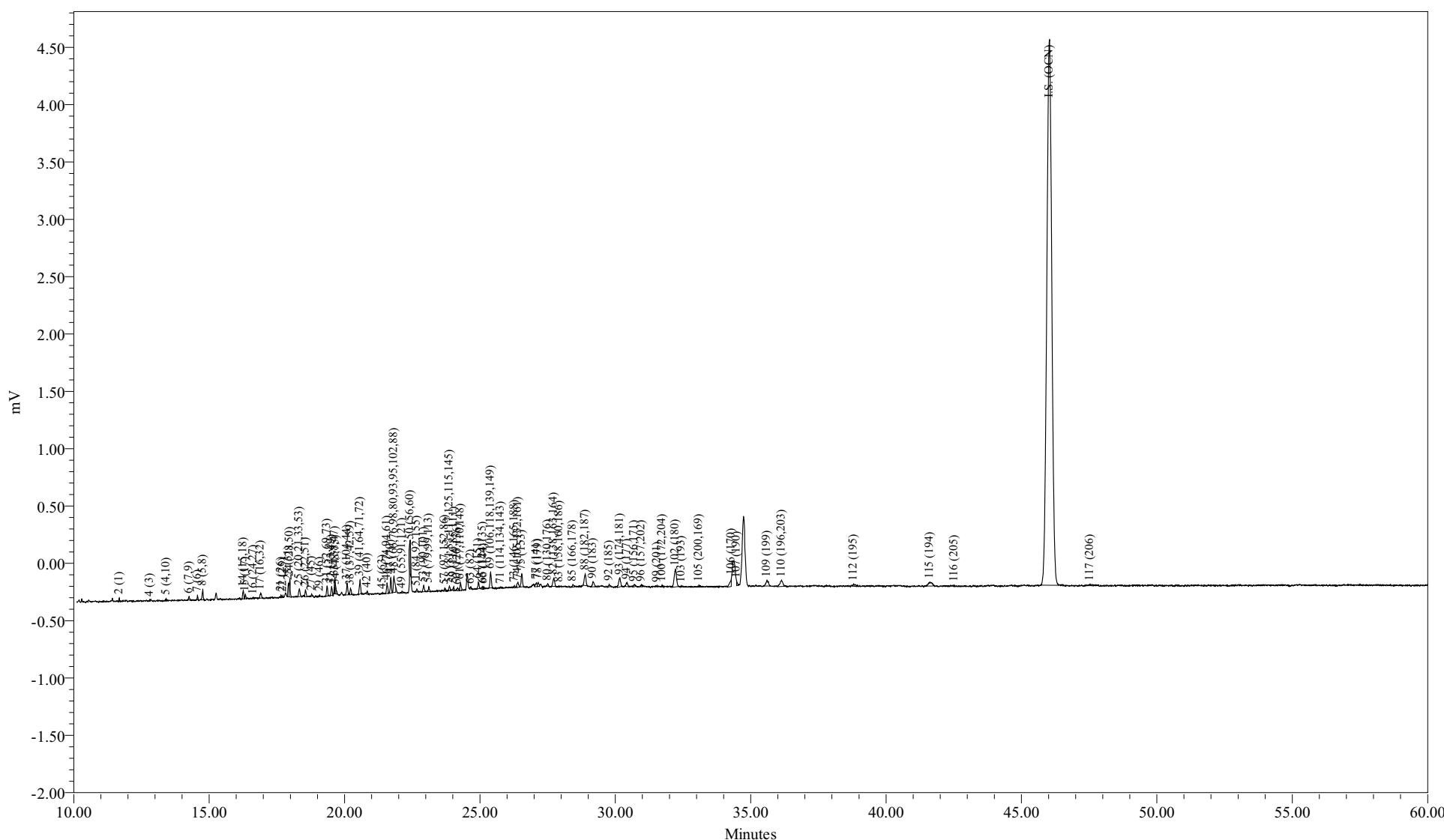
Component Summary For RF

	116 (205)	117 (206)	118 (209)
1	1.004183	1.296327	
2	1.042808	1.456261	1.792784
3	1.109255	1.458768	1.520564
4	1.060838	1.216309	1.606220
5			
6			
7			
Mean	1.054	1.357	1.640
Std. Dev.	0.044	0.121	0.139
% RSD	4.14	8.89	8.49

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Sample Name:
Sample ID:
Date Acquired:

ICAL0731A
ICAL 6.25 ng/mL
8/1/2015 12:01:53 AM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LL1X 073115
GC24-1207-7 [m]

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	ICAL0731A	Sample Amount:	1
Sample ID:	ICAL 6.25 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 12:01:53 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:48 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	8:00:02 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-7 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.680	47	0.439	0.439	0.031909
2	3 (2)	12.698				
3	4 (3)	12.811	15	0.256	0.256	0.018158
4	5 (4,10)	13.415	32	0.124	0.124	0.077639
5	6 (7,9)	14.258	72	0.044	0.044	0.489256
6	7 (6)	14.570	64	0.069	0.069	0.277975
7	8 (5,8)	14.762	241	0.512	0.512	0.141022
8	9 (14)	15.313				
9	10 (19)	15.405				
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.112				
13	14 (15,18)	16.256	199	0.135	0.135	0.440494
14	15 (17)	16.338	94	0.135	0.135	0.207317
15	16 (24,27)	16.631	15	0.009	0.009	0.477265
16	17 (16,32)	16.903	156	0.143	0.143	0.329019
17	19 (23,34,54)	17.345				
18	20 (29)	17.513				
19	21 (26)	17.651	42	0.026	0.026	0.478666
20	22 (25)	17.726	22	0.012	0.012	0.561821
21	23 (31)	17.927	292	0.151	0.151	0.580238
22	24 (28,50)	17.978	422	0.193	0.193	0.656094
23	25 (20,21,33,53)	18.331	237	0.145	0.145	0.488555
24	26 (22,51)	18.557	170	0.106	0.106	0.479646
25	27 (45)	18.784	49	0.033	0.033	0.455828
26	28 (36)	18.922				
27	29 (46)	19.080	19	0.015	0.015	0.382790
28	30 (39)	19.178				
29	31 (52,69,73)	19.351	242	0.174	0.174	0.415533

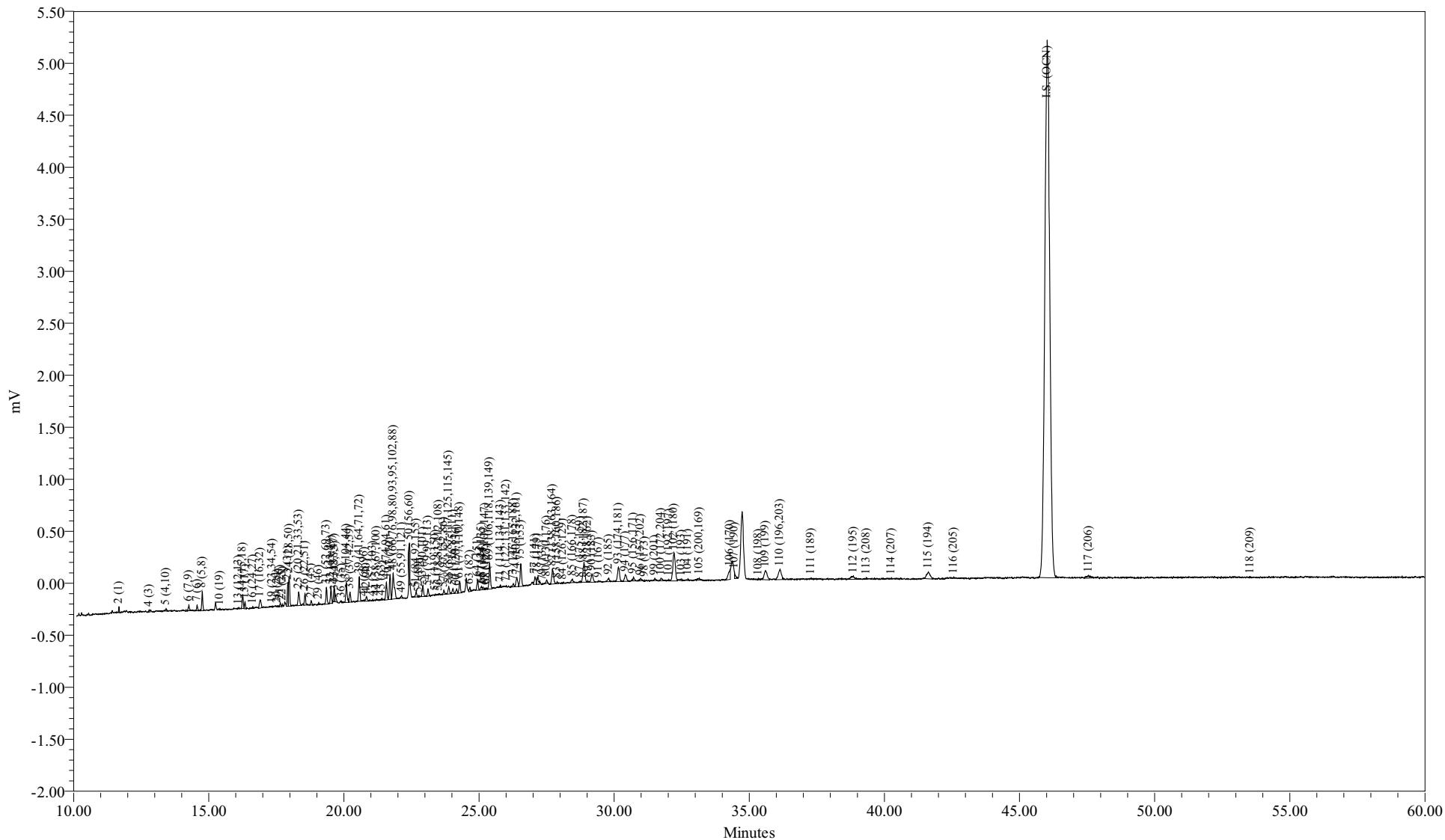
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.523	222	0.084	0.084	0.792959
31	33 (38,47)	19.640	146	0.037	0.037	1.196959
32	34 (48,75)	19.678	86	0.037	0.037	0.705760
33	35 (62,65)	19.841				
34	36 (35)	19.919				
35	37 (104,44)	20.096	328	0.157	0.157	0.625365
36	38 (37,42,59)	20.221	161	0.095	0.095	0.507860
37	39 (41,64,71,72)	20.573	370	0.150	0.150	0.739883
38	41 (68,96)	20.741				
39	42 (40)	20.838	68	0.034	0.034	0.590038
40	43 (57,103)	21.081				
41	44 (58,67,100)	21.243				
42	45 (63)	21.405	19	0.008	0.008	0.756738
43	46 (74,94,61)	21.571	274	0.069	0.069	1.182554
44	47 (70)	21.707	388	0.124	0.124	0.935318
45	48 (66,76,98,80,93,95,102,88)	21.824	569	0.263	0.263	0.648426
46	49 (55,91,121)	22.119	39	0.019	0.019	0.630900
47	50 (56,60)	22.425	310	0.128	0.128	0.726795
48	51 (84,92,155)	22.671	71	0.066	0.066	0.321264
49	52 (89)	22.784				
50	53 (90,101)	22.925	173	0.066	0.066	0.788658
51	54 (79,99,113)	23.112	103	0.027	0.027	1.139014
52	55 (119,150)	23.394				
53	56 (78,83,112,108)	23.492				
54	57 (97,152,86)	23.701	60	0.020	0.020	0.880749
55	58 (81,87,117,125,115,145)	23.876	116	0.042	0.042	0.821873
56	59 (116,85,111)	24.035	71	0.026	0.026	0.833771
57	60 (120,136)	24.174	76	0.027	0.027	0.825691
58	61 (77,110,148)	24.284	195	0.078	0.078	0.752515
59	62 (154)	24.559				
60	63 (82)	24.662	46	0.016	0.016	0.851825
61	64 (151)	24.940	178	0.062	0.062	0.857771
62	65 (124,135)	25.102	50	0.011	0.011	1.403706
63	66 (144)	25.146	31	0.022	0.022	0.422729
64	67 (107,109,147)	25.210				
65	68 (123)	25.298				
66	69 (106,118,139,149)	25.395	468	0.146	0.146	0.958915
67	70 (140)	25.510				
68	71 (114,134,143)	25.769	18	0.007	0.007	0.716627
69	72 (122,131,133,142)	25.999				
70	73 (146,165,188)	26.278	44	0.014	0.014	0.931263
71	74 (105,132,161)	26.405	173	0.050	0.050	1.047714
72	75 (153)	26.545	410	0.108	0.108	1.141745

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.088	125	0.062	0.062	0.601228
75	78 (179)	27.153	123	0.053	0.053	0.690147
76	79 (137)	27.362				
77	80 (130,176)	27.503	52	0.009	0.009	1.644915
78	82 (138,163,164)	27.729	312	0.099	0.099	0.948392
79	83 (158,160,186)	27.925	32	0.009	0.009	1.054083
80	84 (126,129)	28.105				
81	85 (166,178)	28.433	70	0.040	0.040	0.518650
82	87 (175,159)	28.744				
83	88 (182,187)	28.885	441	0.132	0.132	1.004185
84	89 (128,162)	29.019				
85	90 (183)	29.175	198	0.062	0.062	0.954246
86	91 (167)	29.448				
87	92 (185)	29.768	71	0.017	0.017	1.236210
88	93 (174,181)	30.168	382	0.117	0.117	0.977990
89	94 (177)	30.436	158	0.062	0.062	0.763383
90	95 (156,171)	30.699	70	0.029	0.029	0.724110
91	96 (157,202)	30.964	49	0.002	0.002	6.074691
92	98 (173)	31.137				
93	99 (201)	31.546	40	0.014	0.014	0.837384
94	100 (172,204)	31.724	52	0.020	0.020	0.755196
95	101 (192,197)	32.038				
96	102 (180)	32.220	915	0.223	0.223	1.230502
97	103 (193)	32.442	33	0.015	0.015	0.635386
98	104 (191)	32.771				
99	105 (200,169)	33.088	49	0.016	0.016	0.936288
100	106 (170)	34.283	253	0.047	0.047	1.620312
101	107 (190)	34.477	79	0.015	0.015	1.548090
102	108 (198)	35.370				
103	109 (199)	35.602	296	0.154	0.154	0.578335
104	110 (196,203)	36.142	390	0.157	0.157	0.743975
105	111 (189)	37.265				
106	112 (195)	38.802	110	0.020	0.020	1.625648
107	113 (208)	39.323				
108	114 (207)	40.242				
109	115 (194)	41.614	327	0.066	0.066	1.488464
110	116 (205)	42.521	13	0.004	0.004	1.004183
111	I.S. (OCN)	46.039	60656	18.180	18.180	3336.390887
112	117 (206)	47.533	107	0.025	0.025	1.296327
113	118 (209)	53.539				

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Sample Name: ICAL0731B
Sample ID: ICAL 12.5 ng/mL
Date Acquired: 8/1/2015 1:07:28 AM EDT

Sample Amount: 1
Dilution: 1
Processing Method: CSGB LL1X 073115
LIMS File ID: GC24-1207-8 [m]

Sample Name: ICAL0731B

1 of 1

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Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	ICAL0731B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 1:07:28 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:49 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:54 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-8 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.678	85	0.877	0.877	0.027094
2	3 (2)	12.698				
3	4 (3)	12.791	32	0.512	0.512	0.017650
4	5 (4,10)	13.421	66	0.249	0.249	0.073445
5	6 (7,9)	14.263	138	0.088	0.088	0.437185
6	7 (6)	14.570	127	0.139	0.139	0.255183
7	8 (5,8)	14.760	478	1.023	1.023	0.129961
8	9 (14)	15.313				
9	10 (19)	15.414	28	0.020	0.020	0.374369
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.112	20	0.020	0.020	0.291651
13	14 (15,18)	16.251	376	0.270	0.270	0.386614
14	15 (17)	16.344	172	0.270	0.270	0.176913
15	16 (24,27)	16.630	36	0.019	0.019	0.524697
16	17 (16,32)	16.900	322	0.285	0.285	0.314487
17	19 (23,34,54)	17.354	11			
18	20 (29)	17.539	6	0.004	0.004	0.440193
19	21 (26)	17.647	91	0.053	0.053	0.480604
20	22 (25)	17.726	48	0.023	0.023	0.573048
21	23 (31)	17.927	564	0.301	0.301	0.520603
22	24 (28,50)	17.974	846	0.386	0.386	0.610424
23	25 (20,21,33,53)	18.326	476	0.290	0.290	0.456127
24	26 (22,51)	18.562	342	0.212	0.212	0.448752
25	27 (45)	18.789	107	0.065	0.065	0.459115
26	28 (36)	18.922				
27	29 (46)	19.070	47	0.029	0.029	0.446251
28	30 (39)	19.178				
29	31 (52,69,73)	19.354	494	0.349	0.349	0.394700

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.522	435	0.168	0.168	0.720175
31	33 (38,47)	19.638	312	0.073	0.073	1.185858
32	34 (48,75)	19.670	187	0.073	0.073	0.710540
33	35 (62,65)	19.841				
34	36 (35)	19.914	24			
35	37 (104,44)	20.091	628	0.314	0.314	0.556204
36	38 (37,42,59)	20.227	312	0.190	0.190	0.456654
37	39 (41,64,71,72)	20.567	723	0.300	0.300	0.671133
38	41 (68,96)	20.754	28			
39	42 (40)	20.836	163	0.069	0.069	0.659568
40	43 (57,103)	21.075	22			
41	44 (58,67,100)	21.209	21	0.008	0.008	0.714227
42	45 (63)	21.406	44	0.015	0.015	0.796479
43	46 (74,94,61)	21.572	539	0.139	0.139	1.079399
44	47 (70)	21.708	754	0.249	0.249	0.844747
45	48 (66,76,98,80,93,95,102,88)	21.822	1178	0.526	0.526	0.622775
46	49 (55,91,121)	22.137	77	0.037	0.037	0.574445
47	50 (56,60)	22.425	692	0.256	0.256	0.752783
48	51 (84,92,155)	22.674	170	0.132	0.132	0.359358
49	52 (89)	22.774	13	0.007	0.007	0.485498
50	53 (90,101)	22.923	354	0.132	0.132	0.749691
51	54 (79,99,113)	23.112	222	0.054	0.054	1.139949
52	55 (119,150)	23.388	9	0.002	0.002	1.231766
53	56 (78,83,112,108)	23.503	22	0.011	0.011	0.564471
54	57 (97,152,86)	23.702	124	0.041	0.041	0.842315
55	58 (81,87,117,125,115,145)	23.882	251	0.085	0.085	0.825348
56	59 (116,85,111)	24.037	159	0.051	0.051	0.865313
57	60 (120,136)	24.174	155	0.055	0.055	0.786264
58	61 (77,110,148)	24.281	385	0.156	0.156	0.688668
59	62 (154)	24.559				
60	63 (82)	24.659	110	0.032	0.032	0.951507
61	64 (151)	24.948	340	0.124	0.124	0.761624
62	65 (124,135)	25.091	100	0.021	0.021	1.307724
63	66 (144)	25.148	64	0.044	0.044	0.405844
64	67 (107,109,147)	25.220	26	0.009	0.009	0.773179
65	68 (123)	25.282	38			
66	69 (106,118,139,149)	25.391	924	0.292	0.292	0.879435
67	70 (140)	25.510				
68	71 (114,134,143)	25.796	42	0.015	0.015	0.785266
69	72 (122,131,133,142)	26.004	8	0.002	0.002	1.012215
70	73 (146,165,188)	26.273	105	0.029	0.029	1.021323
71	74 (105,132,161)	26.401	384	0.099	0.099	1.078768
72	75 (153)	26.544	863	0.215	0.215	1.115335

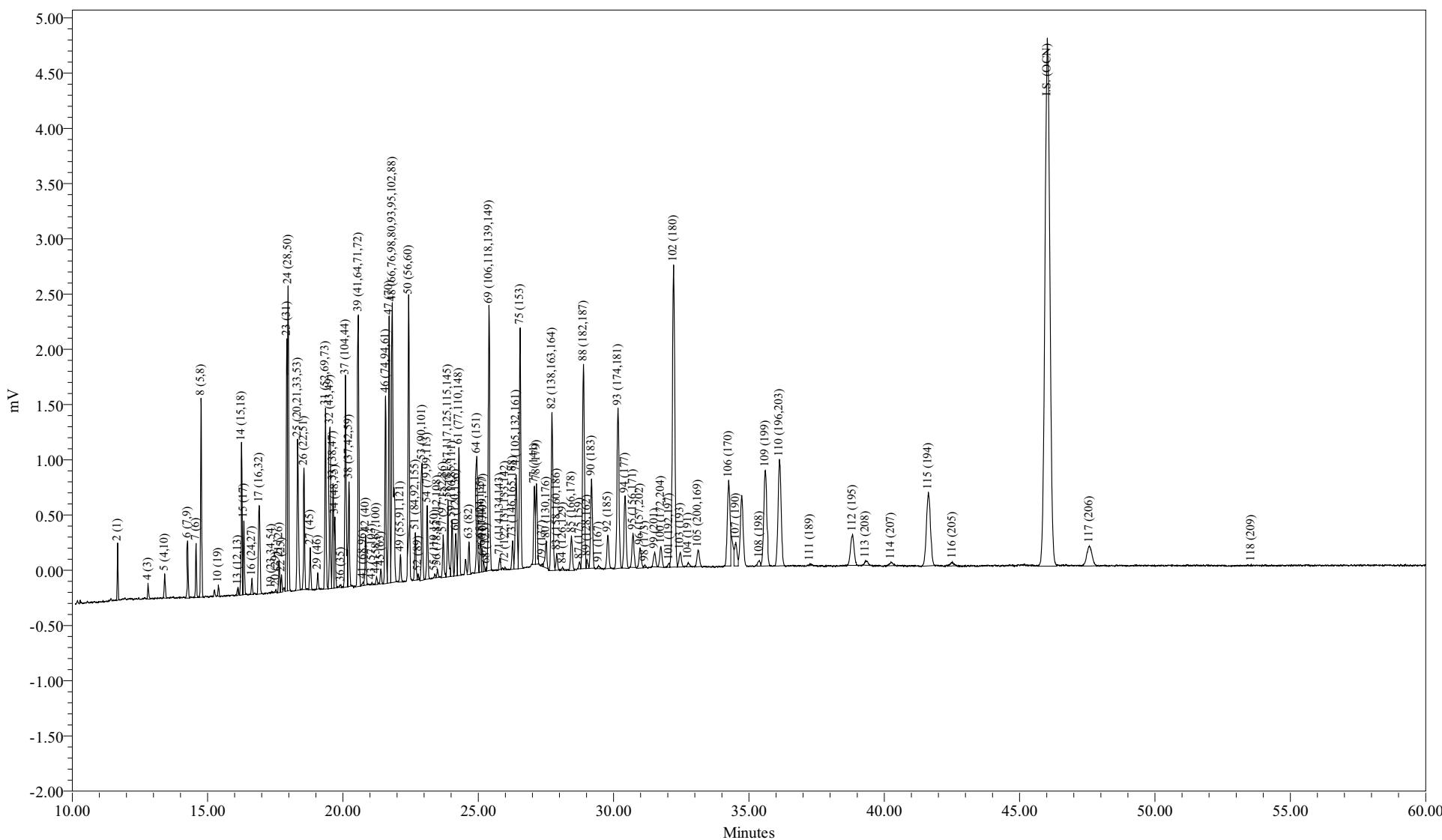
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.071	279	0.124	0.124	0.625693
75	78 (179)	27.165	257	0.107	0.107	0.670321
76	79 (137)	27.359	6	0.005	0.005	0.306487
77	80 (130,176)	27.507	95	0.019	0.019	1.387997
78	82 (138,163,164)	27.714	691	0.197	0.197	0.974361
79	83 (158,160,186)	27.887	61	0.018	0.018	0.925961
80	84 (126,129)	28.101	12	0.001	0.001	3.621444
81	85 (166,178)	28.455	135	0.080	0.080	0.467349
82	87 (175,159)	28.742	22	0.015	0.015	0.427456
83	88 (182,187)	28.880	946	0.263	0.263	1.000849
84	89 (128,162)	29.025	32	0.007	0.007	1.207322
85	90 (183)	29.179	393	0.124	0.124	0.879528
86	91 (167)	29.425	12	0.004	0.004	0.892925
87	92 (185)	29.800	138	0.034	0.034	1.114438
88	93 (174,181)	30.160	731	0.234	0.234	0.870335
89	94 (177)	30.410	336	0.124	0.124	0.752367
90	95 (156,171)	30.712	144	0.058	0.058	0.693334
91	96 (157,202)	30.984	101	0.005	0.005	5.816996
92	98 (173)	31.128	10	0.003	0.003	0.990943
93	99 (201)	31.501	68	0.029	0.029	0.662657
94	100 (172,204)	31.730	127	0.041	0.041	0.860661
95	101 (192,197)	32.021	19	0.008	0.008	0.649200
96	102 (180)	32.217	1687	0.446	0.446	1.052660
97	103 (193)	32.496	78	0.031	0.031	0.710047
98	104 (191)	32.728	23	0.009	0.009	0.738630
99	105 (200,169)	33.148	103	0.031	0.031	0.913423
100	106 (170)	34.287	462	0.094	0.094	1.373929
101	107 (190)	34.452	144	0.031	0.031	1.303600
102	108 (198)	35.335	30	0.009	0.009	0.943332
103	109 (199)	35.603	681	0.307	0.307	0.617708
104	110 (196,203)	36.140	772	0.314	0.314	0.683957
105	111 (189)	37.288	9	0.003	0.003	0.867319
106	112 (195)	38.851	263	0.040	0.040	1.814406
107	113 (208)	39.331	39	0.018	0.018	0.606673
108	114 (207)	40.262	25	0.007	0.007	1.015777
109	115 (194)	41.630	607	0.132	0.132	1.284721
110	116 (205)	42.564	30	0.008	0.008	1.042808
111	I.S. (OCN)	46.024	65325	18.180	18.180	3593.229339
112	117 (206)	47.556	260	0.050	0.050	1.456261
113	118 (209)	53.541	6	0.001	0.001	1.792784

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Sample Name:	ICAL0731C	Sample Amount:	1
Sample ID:	ICAL 125 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 2:13:05 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:51 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:54 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-9 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.677	949	8.771	8.771	0.032408
2	3 (2)	12.698				
3	4 (3)	12.799	335	5.117	5.117	0.019578
4	5 (4,10)	13.416	657	2.485	2.485	0.079195
5	6 (7,9)	14.262	1518	0.877	0.877	0.518110
6	7 (6)	14.573	1186	1.389	1.389	0.255732
7	8 (5,8)	14.760	4654	10.233	10.233	0.136165
8	9 (14)	15.313				
9	10 (19)	15.399	253	0.205	0.205	0.370228
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.127	177	0.195	0.195	0.272294
13	14 (15,18)	16.254	4038	2.704	2.704	0.447005
14	15 (17)	16.340	1811	2.704	2.704	0.200507
15	16 (24,27)	16.640	386	0.190	0.190	0.608941
16	17 (16,32)	16.905	3403	2.851	2.851	0.357446
17	19 (23,34,54)	17.363	46			
18	20 (29)	17.521	59	0.039	0.039	0.457805
19	21 (26)	17.647	816	0.526	0.526	0.464161
20	22 (25)	17.727	452	0.234	0.234	0.579205
21	23 (31)	17.928	5920	3.014	3.014	0.588209
22	24 (28,50)	17.974	8288	3.857	3.857	0.643325
23	25 (20,21,33,53)	18.329	4798	2.903	2.903	0.494825
24	26 (22,51)	18.561	3236	2.120	2.120	0.457012
25	27 (45)	18.792	1085	0.650	0.650	0.499541
26	28 (36)	18.922				
27	29 (46)	19.070	412	0.292	0.292	0.421675
28	30 (39)	19.178				
29	31 (52,69,73)	19.355	4871	3.487	3.487	0.418277

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.522	4588	1.681	1.681	0.817195
31	33 (38,47)	19.635	2968	0.731	0.731	1.215571
32	34 (48,75)	19.701	1919	0.731	0.731	0.785889
33	35 (62,65)	19.841				
34	36 (35)	19.928	96			
35	37 (104,44)	20.094	6434	3.143	3.143	0.612945
36	38 (37,42,59)	20.223	3199	1.901	1.901	0.503983
37	39 (41,64,71,72)	20.567	7921	2.997	2.997	0.791373
38	41 (68,96)	20.738	122			
39	42 (40)	20.834	1418	0.687	0.687	0.618114
40	43 (57,103)	21.076	77			
41	44 (58,67,100)	21.240	230	0.080	0.080	0.856275
42	45 (63)	21.401	420	0.154	0.154	0.819779
43	46 (74,94,61)	21.572	5449	1.389	1.389	1.174701
44	47 (70)	21.706	7869	2.485	2.485	0.948037
45	48 (66,76,98,80,93,95,102,88)	21.824	11016	5.263	5.263	0.626724
46	49 (55,91,121)	22.128	833	0.373	0.373	0.669266
47	50 (56,60)	22.429	6128	2.558	2.558	0.717274
48	51 (84,92,155)	22.675	1532	1.316	1.316	0.348712
49	52 (89)	22.778	121	0.073	0.073	0.496502
50	53 (90,101)	22.923	3486	1.316	1.316	0.793437
51	54 (79,99,113)	23.116	2150	0.541	0.541	1.190152
52	55 (119,150)	23.387	91	0.020	0.020	1.334353
53	56 (78,83,112,108)	23.495	217	0.110	0.110	0.592034
54	57 (97,152,86)	23.706	1316	0.409	0.409	0.963038
55	58 (81,87,117,125,115,145)	23.880	2397	0.848	0.848	0.846503
56	59 (116,85,111)	24.031	1713	0.512	0.512	1.002123
57	60 (120,136)	24.166	1533	0.548	0.548	0.837508
58	61 (77,110,148)	24.287	3887	1.557	1.557	0.747552
59	62 (154)	24.559				
60	63 (82)	24.656	967	0.322	0.322	0.900814
61	64 (151)	24.946	3476	1.243	1.243	0.837632
62	65 (124,135)	25.085	949	0.212	0.212	1.340323
63	66 (144)	25.139	654	0.439	0.439	0.446374
64	67 (107,109,147)	25.180	239	0.095	0.095	0.754678
65	68 (123)	25.292	67			
66	69 (106,118,139,149)	25.395	9069	2.924	2.924	0.928779
67	70 (140)	25.510				
68	71 (114,134,143)	25.798	355	0.148	0.148	0.720143
69	72 (122,131,133,142)	25.988	72	0.021	0.021	1.014182
70	73 (146,165,188)	26.266	880	0.285	0.285	0.924141
71	74 (105,132,161)	26.399	4015	0.990	0.990	1.213931
72	75 (153)	26.548	8287	2.153	2.153	1.152555

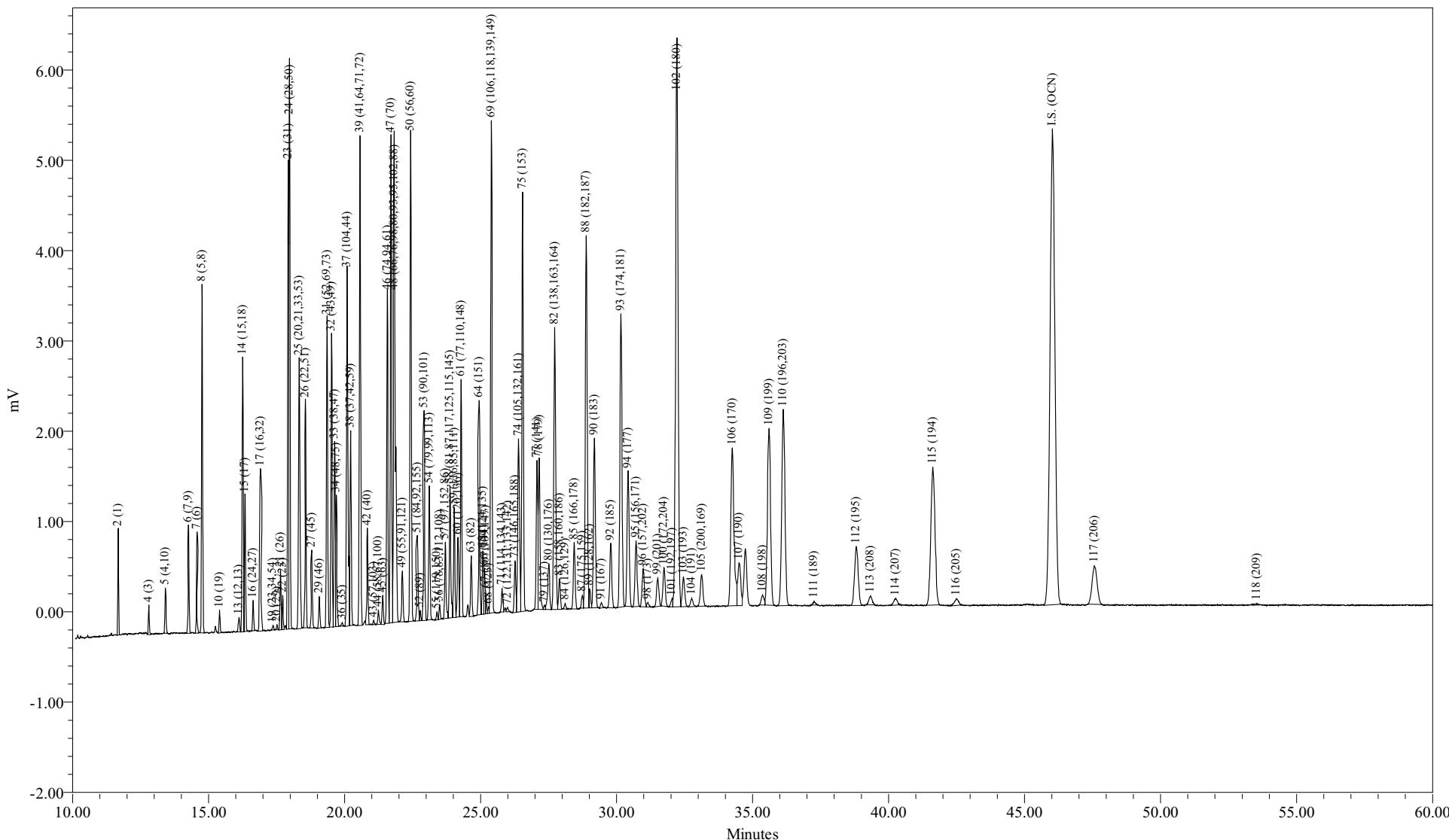
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.072	2594	1.243	1.243	0.624950
75	78 (179)	27.151	2890	1.067	1.067	0.810752
76	79 (137)	27.368	60	0.055	0.055	0.326526
77	80 (130,176)	27.511	1073	0.190	0.190	1.691128
78	82 (138,163,164)	27.724	6825	1.974	1.974	1.035344
79	83 (158,160,186)	27.900	619	0.183	0.183	1.015472
80	84 (126,129)	28.115	100	0.009	0.009	3.174054
81	85 (166,178)	28.443	1478	0.804	0.804	0.550385
82	87 (175,159)	28.738	225	0.146	0.146	0.461667
83	88 (182,187)	28.886	8964	2.631	2.631	1.020050
84	89 (128,162)	29.013	322	0.073	0.073	1.318217
85	90 (183)	29.187	3897	1.243	1.243	0.939146
86	91 (167)	29.441	108	0.036	0.036	0.901861
87	92 (185)	29.787	1530	0.343	0.343	1.333640
88	93 (174,181)	30.162	7690	2.339	2.339	0.984409
89	94 (177)	30.422	3554	1.243	1.243	0.856454
90	95 (156,171)	30.718	1650	0.578	0.578	0.855347
91	96 (157,202)	30.978	1057	0.048	0.048	6.557709
92	98 (173)	31.156	93	0.028	0.028	0.999084
93	99 (201)	31.516	725	0.285	0.285	0.761657
94	100 (172,204)	31.749	1048	0.409	0.409	0.767076
95	101 (192,197)	32.057	165	0.080	0.080	0.615204
96	102 (180)	32.217	17151	4.459	4.459	1.151747
97	103 (193)	32.464	829	0.307	0.307	0.808133
98	104 (191)	32.759	190	0.088	0.088	0.649694
99	105 (200,169)	33.117	971	0.314	0.314	0.925124
100	106 (170)	34.252	5357	0.936	0.936	1.714373
101	107 (190)	34.514	1432	0.307	0.307	1.396296
102	108 (198)	35.385	307	0.088	0.088	1.049255
103	109 (199)	35.604	6774	3.070	3.070	0.660642
104	110 (196,203)	36.129	7619	3.143	3.143	0.725770
105	111 (189)	37.255	86	0.029	0.029	0.878998
106	112 (195)	38.829	2474	0.404	0.404	1.833230
107	113 (208)	39.306	330	0.180	0.180	0.547735
108	114 (207)	40.247	257	0.068	0.068	1.133655
109	115 (194)	41.628	6940	1.316	1.316	1.579389
110	116 (205)	42.513	298	0.080	0.080	1.109255
111	I.S. (OCN)	46.022	60718	18.180	18.180	3339.805105
112	117 (206)	47.578	2421	0.497	0.497	1.458768
113	118 (209)	53.553	45	0.009	0.009	1.520564

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Sample Name:
ICAL0731D
Sample ID:
ICAL 314 ng/mL
Date Acquired:
8/1/2015 3:18:39 AM EDT

Sample Amount:
1
Dilution:
1
Processing Method:
CSGB LL1X 073115
LIMS File ID:
GC24-1207-10 [m]

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Sample Name:	ICAL0731D	Sample Amount:	1
Sample ID:	ICAL 314 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 3:18:39 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:52 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:55 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-10 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.678	2177	21.928	21.928	0.027600
2	3 (2)	12.698				
3	4 (3)	12.802	733	12.792	12.792	0.015919
4	5 (4,10)	13.411	1475	6.213	6.213	0.065982
5	6 (7,9)	14.259	3445	2.193	2.193	0.436766
6	7 (6)	14.571	2688	3.472	3.472	0.215176
7	8 (5,8)	14.760	10289	25.583	25.583	0.111783
8	9 (14)	15.313				
9	10 (19)	15.403	637	0.512	0.512	0.345830
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.115	561	0.488	0.488	0.319750
13	14 (15,18)	16.253	9022	6.761	6.761	0.370878
14	15 (17)	16.339	4197	6.761	6.761	0.172546
15	16 (24,27)	16.638	889	0.475	0.475	0.520575
16	17 (16,32)	16.909	7760	7.127	7.127	0.302648
17	19 (23,34,54)	17.364	160			
18	20 (29)	17.520	137	0.097	0.097	0.393327
19	21 (26)	17.645	1846	1.316	1.316	0.389984
20	22 (25)	17.727	1016	0.585	0.585	0.483174
21	23 (31)	17.926	13350	7.534	7.534	0.492503
22	24 (28,50)	17.973	18265	9.643	9.643	0.526467
23	25 (20,21,33,53)	18.331	10812	7.258	7.258	0.414038
24	26 (22,51)	18.561	7308	5.300	5.300	0.383276
25	27 (45)	18.792	2566	1.626	1.626	0.438556
26	28 (36)	18.922				
27	29 (46)	19.070	1028	0.731	0.731	0.391025
28	30 (39)	19.178				
29	31 (52,69,73)	19.356	10677	8.716	8.716	0.340474

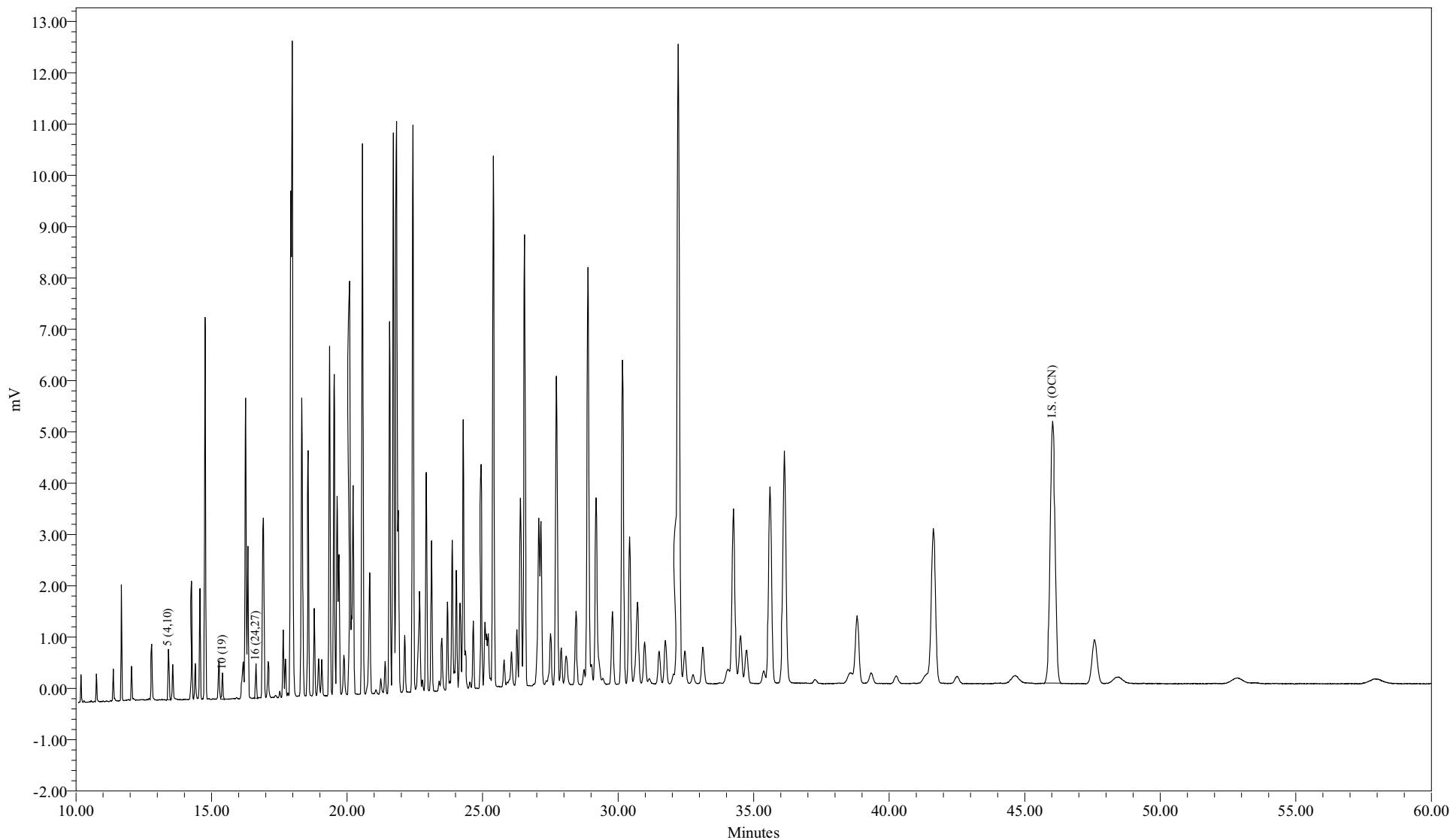
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.523	10129	4.203	4.203	0.669885
31	33 (38,47)	19.635	6446	1.828	1.828	0.980376
32	34 (48,75)	19.698	4279	1.828	1.828	0.650721
33	35 (62,65)	19.841				
34	36 (35)	19.917	132			
35	37 (104,44)	20.094	14498	7.858	7.858	0.512848
36	38 (37,42,59)	20.223	6949	4.751	4.751	0.406531
37	39 (41,64,71,72)	20.568	17462	7.492	7.492	0.647824
38	41 (68,96)	20.741				
39	42 (40)	20.835	3257	1.718	1.718	0.527078
40	43 (57,103)	21.069	137			
41	44 (58,67,100)	21.240	519	0.201	0.201	0.717401
42	45 (63)	21.401	996	0.384	0.384	0.721204
43	46 (74,94,61)	21.572	11990	3.472	3.472	0.959851
44	47 (70)	21.707	17223	6.213	6.213	0.770511
45	48 (66,76,98,80,93,95,102,88)	21.823	24230	13.157	13.157	0.511899
46	49 (55,91,121)	22.126	1820	0.932	0.932	0.542636
47	50 (56,60)	22.429	17782	6.396	6.396	0.772804
48	51 (84,92,155)	22.674	3442	3.289	3.289	0.290828
49	52 (89)	22.779	323	0.183	0.183	0.491666
50	53 (90,101)	22.924	7690	3.289	3.289	0.649878
51	54 (79,99,113)	23.114	4826	1.352	1.352	0.991917
52	55 (119,150)	23.396	267	0.051	0.051	1.447678
53	56 (78,83,112,108)	23.496	519	0.274	0.274	0.526647
54	57 (97,152,86)	23.705	3016	1.023	1.023	0.819252
55	58 (81,87,117,125,115,145)	23.877	5396	2.120	2.120	0.707554
56	59 (116,85,111)	24.032	3963	1.279	1.279	0.860982
57	60 (120,136)	24.168	3518	1.370	1.370	0.713608
58	61 (77,110,148)	24.285	8740	3.892	3.892	0.624144
59	62 (154)	24.559				
60	63 (82)	24.655	2205	0.804	0.804	0.762415
61	64 (151)	24.946	7756	3.106	3.106	0.694024
62	65 (124,135)	25.084	2436	0.530	0.530	1.277340
63	66 (144)	25.142	1482	1.097	1.097	0.375660
64	67 (107,109,147)	25.182	555	0.237	0.237	0.649790
65	68 (123)	25.294	200			
66	69 (106,118,139,149)	25.394	19994	7.309	7.309	0.760288
67	70 (140)	25.510				
68	71 (114,134,143)	25.790	957	0.369	0.369	0.720867
69	72 (122,131,133,142)	25.999	207	0.053	0.053	1.079261
70	73 (146,165,188)	26.265	2051	0.713	0.713	0.799794
71	74 (105,132,161)	26.394	9134	2.476	2.476	1.025457
72	75 (153)	26.545	18087	5.382	5.382	0.934116

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.075	6406	3.106	3.106	0.573156
75	78 (179)	27.154	6903	2.668	2.668	0.719105
76	79 (137)	27.353	160	0.137	0.137	0.325559
77	80 (130,176)	27.508	2449	0.475	0.475	1.433207
78	82 (138,163,164)	27.725	15542	4.964	4.964	0.870274
79	83 (158,160,186)	27.901	1493	0.457	0.457	0.908655
80	84 (126,129)	28.113	257	0.024	0.024	3.024693
81	85 (166,178)	28.442	3298	2.010	2.010	0.456063
82	87 (175,159)	28.743	583	0.366	0.366	0.443180
83	88 (182,187)	28.883	20156	6.578	6.578	0.851654
84	89 (128,162)	29.008	825	0.183	0.183	1.255004
85	90 (183)	29.185	9220	3.106	3.106	0.824931
86	91 (167)	29.438	258	0.090	0.090	0.801188
87	92 (185)	29.787	3639	0.859	0.859	1.178168
88	93 (174,181)	30.159	17352	5.847	5.847	0.824814
89	94 (177)	30.425	8107	3.106	3.106	0.725351
90	95 (156,171)	30.717	3955	1.444	1.444	0.761461
91	96 (157,202)	30.978	2375	0.121	0.121	5.469082
92	98 (173)	31.149	241	0.069	0.069	0.963845
93	99 (201)	31.513	1843	0.713	0.713	0.718833
94	100 (172,204)	31.743	2483	1.023	1.023	0.674468
95	101 (192,197)	32.041	410	0.201	0.201	0.567614
96	102 (180)	32.219	39374	11.147	11.147	0.981801
97	103 (193)	32.457	2023	0.768	0.768	0.732617
98	104 (191)	32.763	583	0.219	0.219	0.739662
99	105 (200,169)	33.130	2260	0.786	0.786	0.799339
100	106 (170)	34.256	14120	2.339	2.339	1.677965
101	107 (190)	34.502	3619	0.768	0.768	1.310714
102	108 (198)	35.366	783	0.219	0.219	0.992699
103	109 (199)	35.607	15654	7.675	7.675	0.566927
104	110 (196,203)	36.129	17792	7.858	7.858	0.629349
105	111 (189)	37.258	237	0.073	0.073	0.904458
106	112 (195)	38.812	6046	1.010	1.010	1.663320
107	113 (208)	39.336	835	0.451	0.451	0.514058
108	114 (207)	40.260	675	0.170	0.170	1.103301
109	115 (194)	41.626	16270	3.289	3.289	1.374917
110	116 (205)	42.488	767	0.201	0.201	1.060838
111	I.S. (OCN)	46.025	65406	18.180	18.180	3597.696649
112	117 (206)	47.565	5437	1.242	1.242	1.216309
113	118 (209)	53.542	128	0.022	0.022	1.606220

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Sample Name:	ICAL0731E	Sample Amount:	1
Sample ID:	ICAL 627 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 4:24:16 AM EDT	Processing Method:	CSGB LL1X 073115
		LIMS File ID:	GC24-1207-11 [m]

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Sample Name:	ICAL0731E	Sample Amount:	1
Sample ID:	ICAL 627 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 4:24:16 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:54 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:55 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-11 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.677				
2	3 (2)	12.698				
3	4 (3)	12.800				
4	5 (4,10)	13.412	2970	12.426	12.426	0.066649
5	6 (7,9)	14.262				
6	7 (6)	14.574				
7	8 (5,8)	14.761				
8	9 (14)	15.313				
9	10 (19)	15.403	1361	1.024	1.024	0.370816
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.112				
13	14 (15,18)	16.258				
14	15 (17)	16.342				
15	16 (24,27)	16.638	1877	0.950	0.950	0.551224
16	17 (16,32)	16.906				
17	19 (23,34,54)	17.345				
18	20 (29)	17.513				
19	21 (26)	17.647				
20	22 (25)	17.723				
21	23 (31)	17.929				
22	24 (28,50)	17.976				
23	25 (20,21,33,53)	18.330				
24	26 (22,51)	18.562				
25	27 (45)	18.795				
26	28 (36)	18.922				
27	29 (46)	19.072				
28	30 (39)	19.178				
29	31 (52,69,73)	19.358				

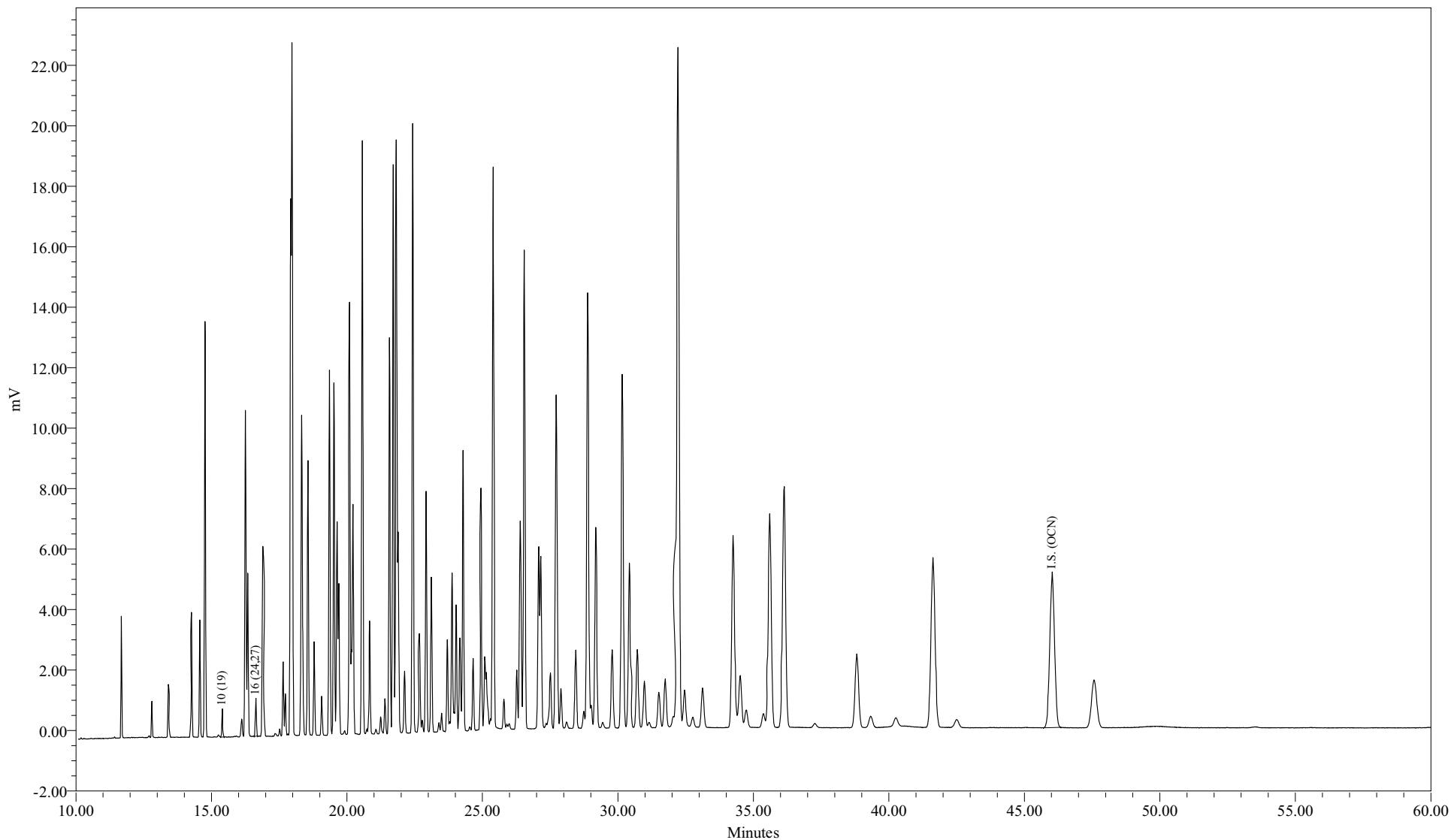
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.524				
31	33 (38,47)	19.638				
32	34 (48,75)	19.703				
33	35 (62,65)	19.841				
34	36 (35)	19.919				
35	37 (104,44)	20.096				
36	38 (37,42,59)	20.226				
37	39 (41,64,71,72)	20.568				
38	41 (68,96)	20.741				
39	42 (40)	20.836				
40	43 (57,103)	21.081				
41	44 (58,67,100)	21.243				
42	45 (63)	21.401				
43	46 (74,94,61)	21.573				
44	47 (70)	21.710				
45	48 (66,76,98,80,93,95,102,88)	21.825				
46	49 (55,91,121)	22.130				
47	50 (56,60)	22.432				
48	51 (84,92,155)	22.678				
49	52 (89)	22.784				
50	53 (90,101)	22.923				
51	54 (79,99,113)	23.116				
52	55 (119,150)	23.394				
53	56 (78,83,112,108)	23.492				
54	57 (97,152,86)	23.707				
55	58 (81,87,117,125,115,145)	23.879				
56	59 (116,85,111)	24.030				
57	60 (120,136)	24.171				
58	61 (77,110,148)	24.286				
59	62 (154)	24.559				
60	63 (82)	24.656				
61	64 (151)	24.946				
62	65 (124,135)	25.091				
63	66 (144)	25.140				
64	67 (107,109,147)	25.210				
65	68 (123)	25.298				
66	69 (106,118,139,149)	25.398				
67	70 (140)	25.510				
68	71 (114,134,143)	25.795				
69	72 (122,131,133,142)	25.999				
70	73 (146,165,188)	26.267				
71	74 (105,132,161)	26.401				
72	75 (153)	26.546				

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.078				
75	78 (179)	27.153				
76	79 (137)	27.362				
77	80 (130,176)	27.515				
78	82 (138,163,164)	27.726				
79	83 (158,160,186)	27.902				
80	84 (126,129)	28.105				
81	85 (166,178)	28.445				
82	87 (175,159)	28.744				
83	88 (182,187)	28.891				
84	89 (128,162)	29.019				
85	90 (183)	29.191				
86	91 (167)	29.448				
87	92 (185)	29.790				
88	93 (174,181)	30.167				
89	94 (177)	30.427				
90	95 (156,171)	30.720				
91	96 (157,202)	30.969				
92	98 (173)	31.137				
93	99 (201)	31.506				
94	100 (172,204)	31.740				
95	101 (192,197)	32.038				
96	102 (180)	32.212				
97	103 (193)	32.465				
98	104 (191)	32.771				
99	105 (200,169)	33.126				
100	106 (170)	34.255				
101	107 (190)	34.518				
102	108 (198)	35.370				
103	109 (199)	35.605				
104	110 (196,203)	36.133				
105	111 (189)	37.265				
106	112 (195)	38.818				
107	113 (208)	39.323				
108	114 (207)	40.242				
109	115 (194)	41.635				
110	116 (205)	42.515				
111	I.S. (OCN)	46.030	65195	18.180	18.180	3586.058894
112	117 (206)	47.587				
113	118 (209)	53.539				

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Sample Name:	ICAL0731F	Sample Amount:	1
Sample ID:	ICAL 1254 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 5:30:05 AM EDT	Processing Method:	CSGB LL1X 073115
		LIMS File ID:	GC24-1207-12 [m]

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Sample Name:	ICAL0731F	Sample Amount:	1
Sample ID:	ICAL 1254 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 5:30:05 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:56 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:56 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-12 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.677				
2	3 (2)	12.698				
3	4 (3)	12.800				
4	5 (4,10)	13.415				
5	6 (7,9)	14.262				
6	7 (6)	14.574				
7	8 (5,8)	14.761				
8	9 (14)	15.313				
9	10 (19)	15.403	2386	2.047	2.047	0.335997
10	11 (30)	15.859				
11	12 (11)	15.921				
12	13 (12,13)	16.112				
13	14 (15,18)	16.258				
14	15 (17)	16.342				
15	16 (24,27)	16.638	3510	1.900	1.900	0.532628
16	17 (16,32)	16.906				
17	19 (23,34,54)	17.345				
18	20 (29)	17.513				
19	21 (26)	17.647				
20	22 (25)	17.723				
21	23 (31)	17.929				
22	24 (28,50)	17.976				
23	25 (20,21,33,53)	18.330				
24	26 (22,51)	18.562				
25	27 (45)	18.795				
26	28 (36)	18.922				
27	29 (46)	19.072				
28	30 (39)	19.178				
29	31 (52,69,73)	19.358				

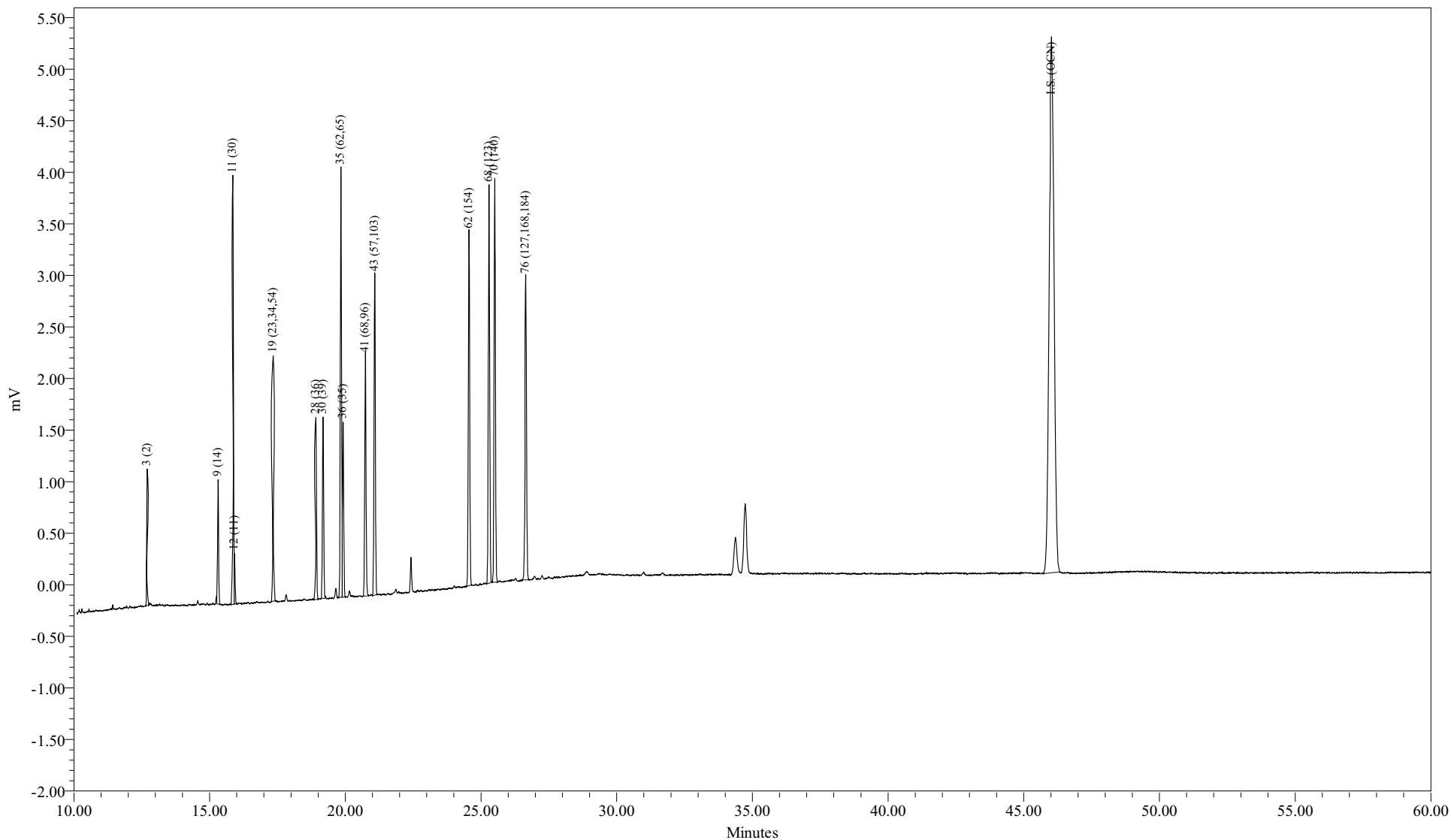
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.524				
31	33 (38,47)	19.638				
32	34 (48,75)	19.703				
33	35 (62,65)	19.841				
34	36 (35)	19.919				
35	37 (104,44)	20.096				
36	38 (37,42,59)	20.226				
37	39 (41,64,71,72)	20.568				
38	41 (68,96)	20.741				
39	42 (40)	20.836				
40	43 (57,103)	21.081				
41	44 (58,67,100)	21.243				
42	45 (63)	21.401				
43	46 (74,94,61)	21.573				
44	47 (70)	21.710				
45	48 (66,76,98,80,93,95,102,88)	21.825				
46	49 (55,91,121)	22.130				
47	50 (56,60)	22.432				
48	51 (84,92,155)	22.678				
49	52 (89)	22.784				
50	53 (90,101)	22.923				
51	54 (79,99,113)	23.116				
52	55 (119,150)	23.394				
53	56 (78,83,112,108)	23.492				
54	57 (97,152,86)	23.707				
55	58 (81,87,117,125,115,145)	23.879				
56	59 (116,85,111)	24.030				
57	60 (120,136)	24.171				
58	61 (77,110,148)	24.286				
59	62 (154)	24.559				
60	63 (82)	24.656				
61	64 (151)	24.946				
62	65 (124,135)	25.091				
63	66 (144)	25.140				
64	67 (107,109,147)	25.210				
65	68 (123)	25.298				
66	69 (106,118,139,149)	25.398				
67	70 (140)	25.510				
68	71 (114,134,143)	25.795				
69	72 (122,131,133,142)	25.999				
70	73 (146,165,188)	26.267				
71	74 (105,132,161)	26.401				
72	75 (153)	26.546				

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.646				
74	77 (141)	27.078				
75	78 (179)	27.153				
76	79 (137)	27.362				
77	80 (130,176)	27.515				
78	82 (138,163,164)	27.726				
79	83 (158,160,186)	27.902				
80	84 (126,129)	28.105				
81	85 (166,178)	28.445				
82	87 (175,159)	28.744				
83	88 (182,187)	28.891				
84	89 (128,162)	29.019				
85	90 (183)	29.191				
86	91 (167)	29.448				
87	92 (185)	29.790				
88	93 (174,181)	30.167				
89	94 (177)	30.427				
90	95 (156,171)	30.720				
91	96 (157,202)	30.969				
92	98 (173)	31.137				
93	99 (201)	31.506				
94	100 (172,204)	31.740				
95	101 (192,197)	32.038				
96	102 (180)	32.212				
97	103 (193)	32.465				
98	104 (191)	32.771				
99	105 (200,169)	33.126				
100	106 (170)	34.255				
101	107 (190)	34.518				
102	108 (198)	35.370				
103	109 (199)	35.605				
104	110 (196,203)	36.133				
105	111 (189)	37.265				
106	112 (195)	38.818				
107	113 (208)	39.323				
108	114 (207)	40.242				
109	115 (194)	41.635				
110	116 (205)	42.515				
111	I.S. (OCN)	46.028	63069	18.180	18.180	3469.120378
112	117 (206)	47.587				
113	118 (209)	53.539				

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Sample Name:
Sample ID:
Date Acquired:

SC0731A
SUP CONG STD 200/5 ng/ml
8/1/2015 7:41:14 AM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1

1

CSGB LL1X 073115
GC24-1207-14 [m]

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Sample Name:	SC0731A	Sample Amount:	1
Sample ID:	SUP CONG STD 200/5 ng/ml	Dilution:	1
Date Acquired:	8/1/2015 7:41:14 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:51:57 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:56 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-14 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.677				
2	3 (2)	12.698	2761	200.000	200.000	0.003878
3	4 (3)	12.800				
4	5 (4,10)	13.415				
5	6 (7,9)	14.262				
6	7 (6)	14.574				
7	8 (5,8)	14.761				
8	9 (14)	15.312	3091	5.000	5.000	0.173628
9	10 (19)	15.405				
10	11 (30)	15.857	11035	5.000	5.000	0.619817
11	12 (11)	15.917	1050	5.000	5.000	0.058966
12	13 (12,13)	16.112				
13	14 (15,18)	16.258				
14	15 (17)	16.342				
15	16 (24,27)	16.641				
16	17 (16,32)	16.906				
17	19 (23,34,54)	17.343	6841	5.000	5.000	0.384236
18	20 (29)	17.513				
19	21 (26)	17.647				
20	22 (25)	17.723				
21	23 (31)	17.929				
22	24 (28,50)	17.976				
23	25 (20,21,33,53)	18.330				
24	26 (22,51)	18.562				
25	27 (45)	18.795				
26	28 (36)	18.917	5367	5.000	5.000	0.301454
27	29 (46)	19.072				
28	30 (39)	19.178	5195	5.000	5.000	0.291801
29	31 (52,69,73)	19.358				

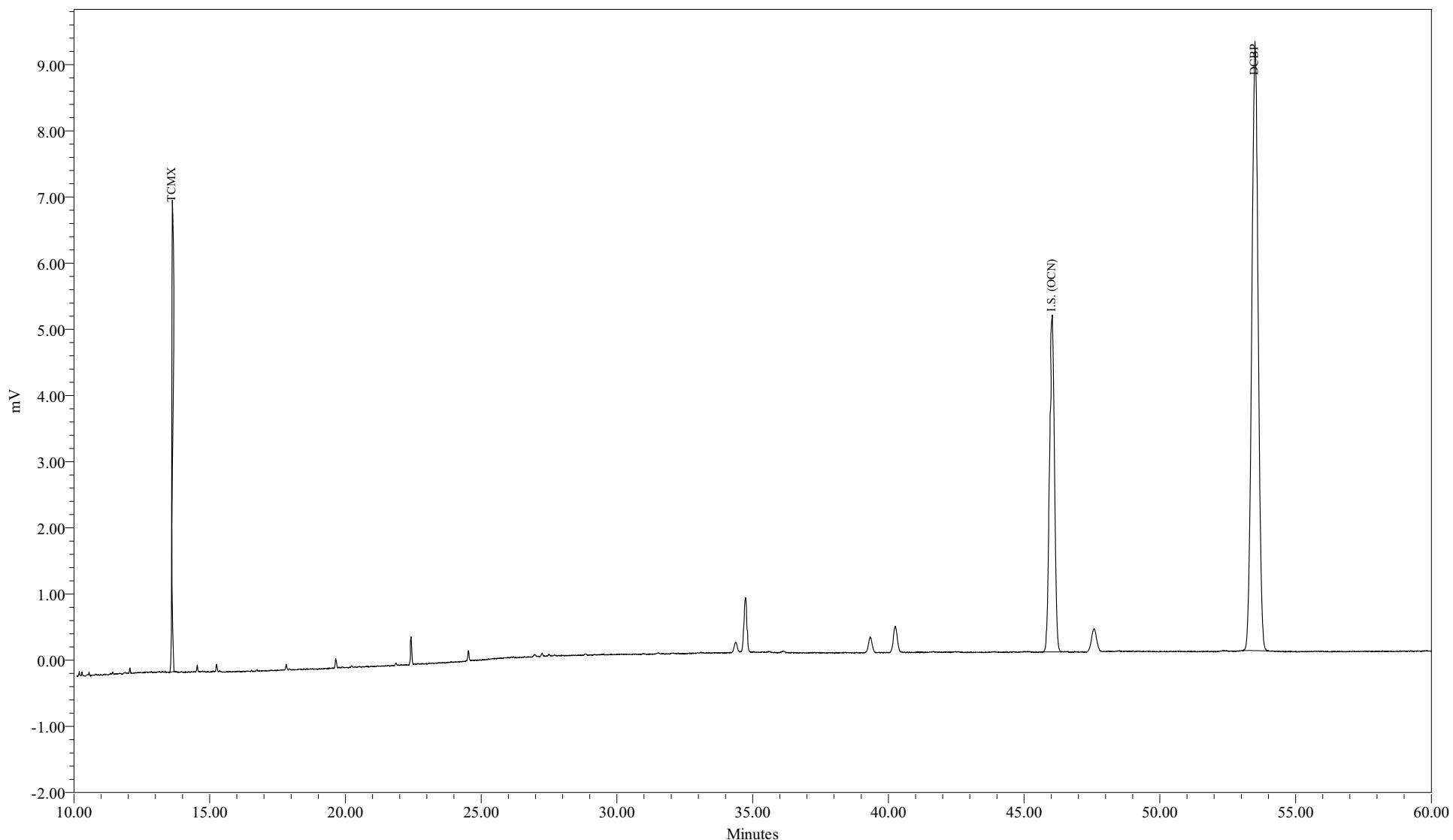
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
30	32 (43,49)	19.524				
31	33 (38,47)	19.638				
32	34 (48,75)	19.703				
33	35 (62,65)	19.838	12937	5.000	5.000	0.726662
34	36 (35)	19.917	5021	5.000	5.000	0.282048
35	37 (104,44)	20.096				
36	38 (37,42,59)	20.226				
37	39 (41,64,71,72)	20.568				
38	41 (68,96)	20.739	7601	5.000	5.000	0.426968
39	42 (40)	20.836				
40	43 (57,103)	21.083	10319	5.000	5.000	0.579609
41	44 (58,67,100)	21.243				
42	45 (63)	21.401				
43	46 (74,94,61)	21.573				
44	47 (70)	21.710				
45	48 (66,76,98,80,93,95,102,88)	21.825				
46	49 (55,91,121)	22.130				
47	50 (56,60)	22.432				
48	51 (84,92,155)	22.678				
49	52 (89)	22.784				
50	53 (90,101)	22.923				
51	54 (79,99,113)	23.116				
52	55 (119,150)	23.394				
53	56 (78,83,112,108)	23.492				
54	57 (97,152,86)	23.707				
55	58 (81,87,117,125,115,145)	23.879				
56	59 (116,85,111)	24.030				
57	60 (120,136)	24.171				
58	61 (77,110,148)	24.286				
59	62 (154)	24.557	11956	5.000	5.000	0.671541
60	63 (82)	24.656				
61	64 (151)	24.946				
62	65 (124,135)	25.091				
63	66 (144)	25.140				
64	67 (107,109,147)	25.210				
65	68 (123)	25.294	13025	5.000	5.000	0.731584
66	69 (106,118,139,149)	25.398				
67	70 (140)	25.506	13454	5.000	5.000	0.755709
68	71 (114,134,143)	25.795				
69	72 (122,131,133,142)	25.999				
70	73 (146,165,188)	26.267				
71	74 (105,132,161)	26.401				
72	75 (153)	26.546				

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
73	76 (127,168,184)	26.647	11583	5.000	5.000	0.650637
74	77 (141)	27.078				
75	78 (179)	27.153				
76	79 (137)	27.362				
77	80 (130,176)	27.515				
78	82 (138,163,164)	27.726				
79	83 (158,160,186)	27.902				
80	84 (126,129)	28.105				
81	85 (166,178)	28.445				
82	87 (175,159)	28.744				
83	88 (182,187)	28.891				
84	89 (128,162)	29.019				
85	90 (183)	29.191				
86	91 (167)	29.448				
87	92 (185)	29.790				
88	93 (174,181)	30.167				
89	94 (177)	30.427				
90	95 (156,171)	30.720				
91	96 (157,202)	30.969				
92	98 (173)	31.137				
93	99 (201)	31.506				
94	100 (172,204)	31.740				
95	101 (192,197)	32.038				
96	102 (180)	32.212				
97	103 (193)	32.465				
98	104 (191)	32.771				
99	105 (200,169)	33.126				
100	106 (170)	34.255				
101	107 (190)	34.518				
102	108 (198)	35.370				
103	109 (199)	35.605				
104	110 (196,203)	36.133				
105	111 (189)	37.265				
106	112 (195)	38.818				
107	113 (208)	39.323				
108	114 (207)	40.242				
109	115 (194)	41.635				
110	116 (205)	42.515				
111	I.S. (OCN)	46.025	64733	18.180	18.180	3560.657787
112	117 (206)	47.587				
113	118 (209)	53.539				

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Sample Name:	TD0731A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	8/1/2015 8:46:53 AM EDT	Processing Method:	CSGB TD S 073115
		LIMS File ID:	GC24-1207-15 [m]

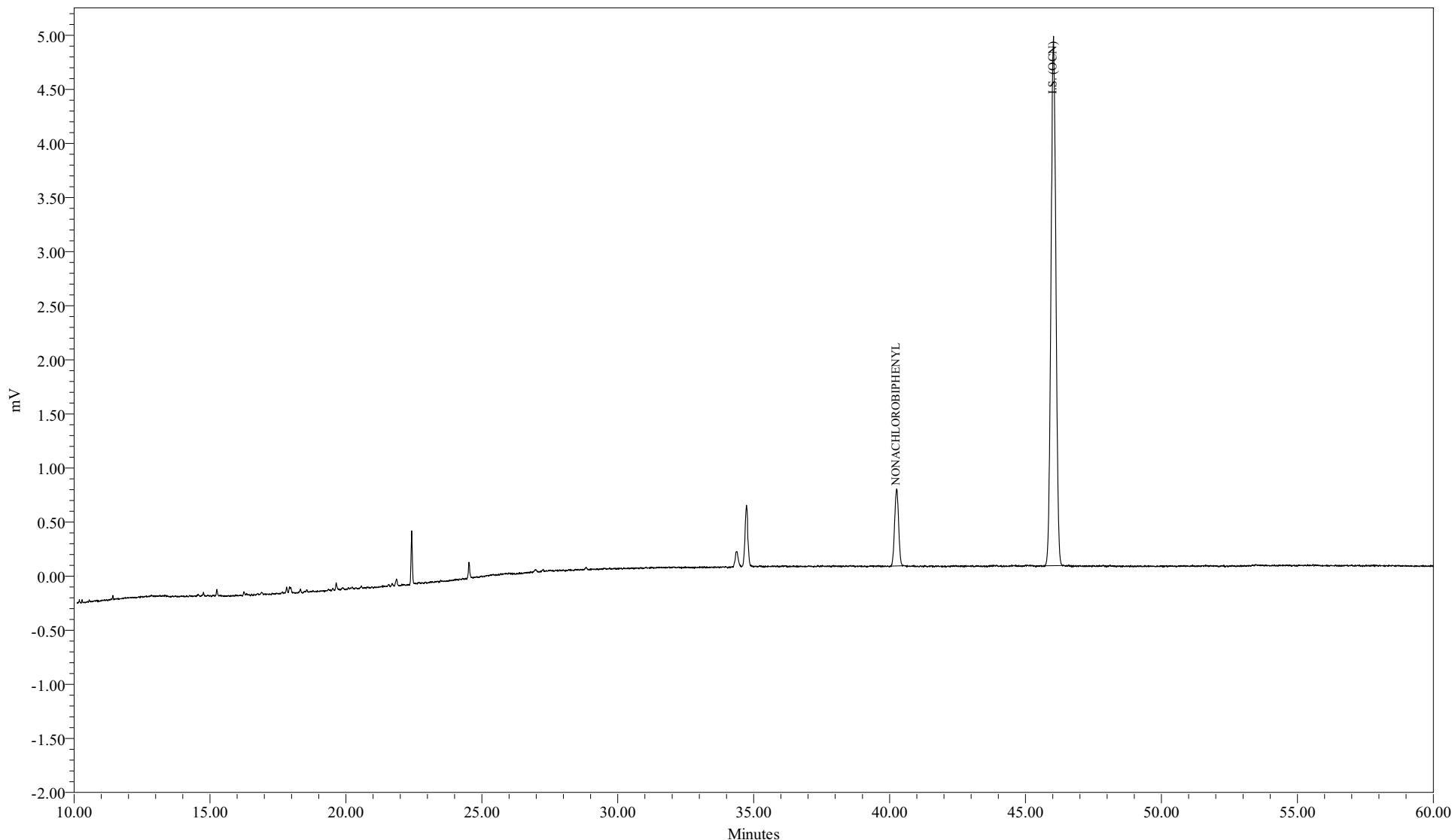
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Sample Name:	TD0731A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	8/1/2015 8:46:53 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:16:42 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_TD_S_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:57 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-15 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.621	16092	5.000	5.000	0.898897
2	I.S. (OCN)	46.040	65093	18.180	18.180	3580.450476
3	DCBP	53.502	151244	50.000	50.000	0.844831

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Sample Name:	SS0731A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 9:52:33 AM EDT	Processing Method:	CSGB S 2 073115
		LIMS File ID:	GC24-1207-16 [m]

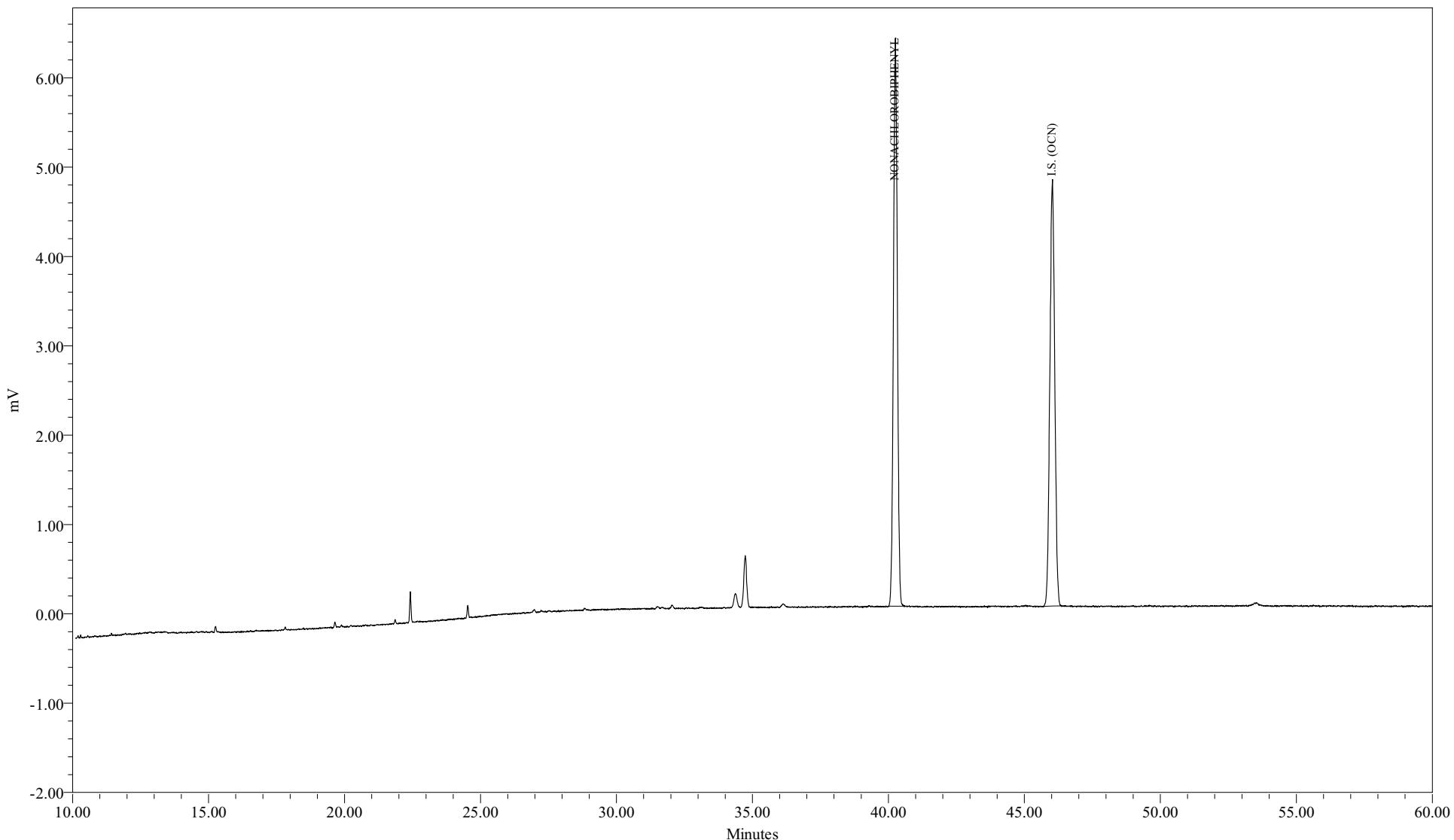
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Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	SS0731A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 9:52:33 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:17:36 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_S_2_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:57 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-16 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.263	7207	2.000	2.000	1.069455
2	I.S. (OCN)	46.028	61256	18.180	18.180	3369.434242

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Sample Name:	SS0731B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 10:58:09 AM EDT	Processing Method:	CSGB S 20 073115
		LIMS File ID:	GC24-1207-17 [m]

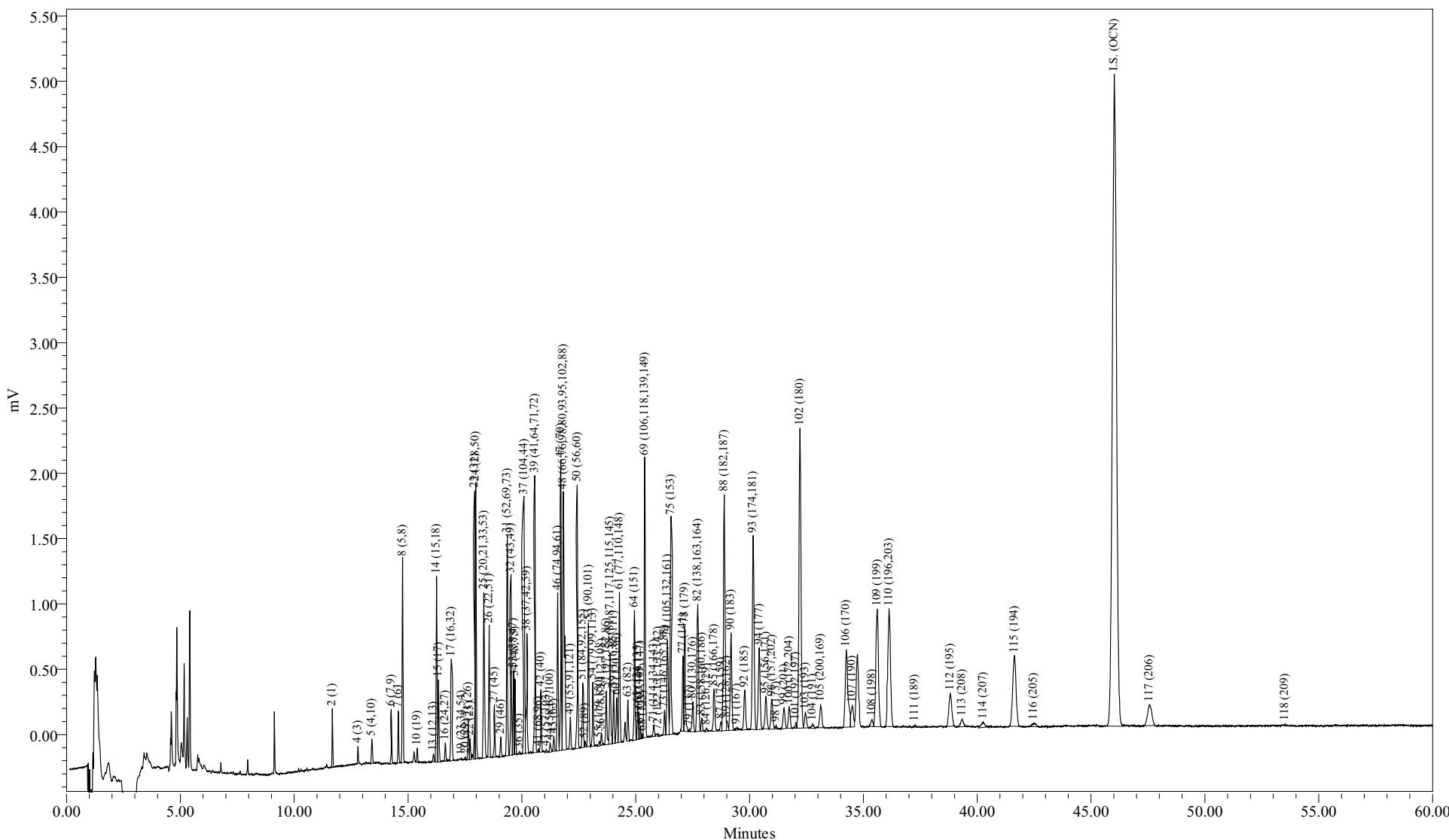
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Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	SS0731B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 10:58:09 AM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:18:19 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_S_20_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	7:59:58 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-1207-17 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.256	63401	20.000	20.000	0.964427
2	I.S. (OCN)	46.036	59758	18.180	18.180	3286.994427

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Sample Name:
 Sample ID:
 Date Acquired:

CCCS0731A
 CCC Std 122 ng/mL
 8/1/2015 1:09:21 PM EDT

Sample Amount:
 Dilution:
 Processing Method:
 LIMS File ID:

1
 1
 CSGB_LL1X_073115
 GC24-1207-19 [m]

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Sample Name:	CCCS0731A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	8/1/2015 1:09:21 PM EDT	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	8/1/2015 7:53:17 PM EDT
Sample Set Name:	GC24_CC_073115	User Name:	Amie Hamilton (AmieH)
Processing Method:	CSGB_LL1X_073115	Current Date:	8/1/2015
Run Time:	60.0 Minutes	Current Time:	8:00:22 PM US/Eastern
Report Name:	CSGB_ChkStd_rpt_ng_mL	LIMS File ID:	GC24-1207-19 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ng/mL
1	2 (1)	11.676	828	8.264	8.264
2	4 (3)	12.800	287	4.887	4.887
3	5 (4,10)	13.409	553	2.337	2.337
4	6 (7,9)	14.260	1198	0.753	0.753
5	7 (6)	14.572	938	1.186	1.186
6	8 (5,8)	14.761	4054	9.827	9.827
7	10 (19)	15.404	272	0.223	0.223
8	13 (12,13)	16.115	203	0.192	0.192
9	14 (15,18)	16.255	4115	3.031	3.031
10	15 (17)	16.339	1740	2.785	2.785
11	16 (24,27)	16.634	392	0.210	0.210
12	17 (16,32)	16.901	3277	2.978	2.978
13	19 (23,34,54)	17.348	25	0.019	0.019
14	20 (29)	17.528	49	0.034	0.034
15	21 (26)	17.646	857	0.600	0.600
16	22 (25)	17.728	441	0.249	0.249
17	23 (31)	17.927	5606	3.115	3.115
18	24 (28,50)	17.976	6062	3.110	3.110
19	25 (20,21,33,53)	18.330	4588	3.030	3.030
20	26 (22,51)	18.561	2918	2.077	2.077
21	27 (45)	18.791	1178	0.747	0.747
22	29 (46)	19.075	460	0.332	0.332
23	31 (52,69,73)	19.355	5204	4.142	4.142
24	32 (43,49)	19.523	4236	1.718	1.718
25	33 (38,47)	19.634	1960	0.536	0.536
26	34 (48,75)	19.699	1708	0.716	0.716
27	36 (35)	19.891	68	0.069	0.069
28	37 (104,44)	20.095	6263	3.339	3.339
29	38 (37,42,59)	20.224	3350	2.227	2.227

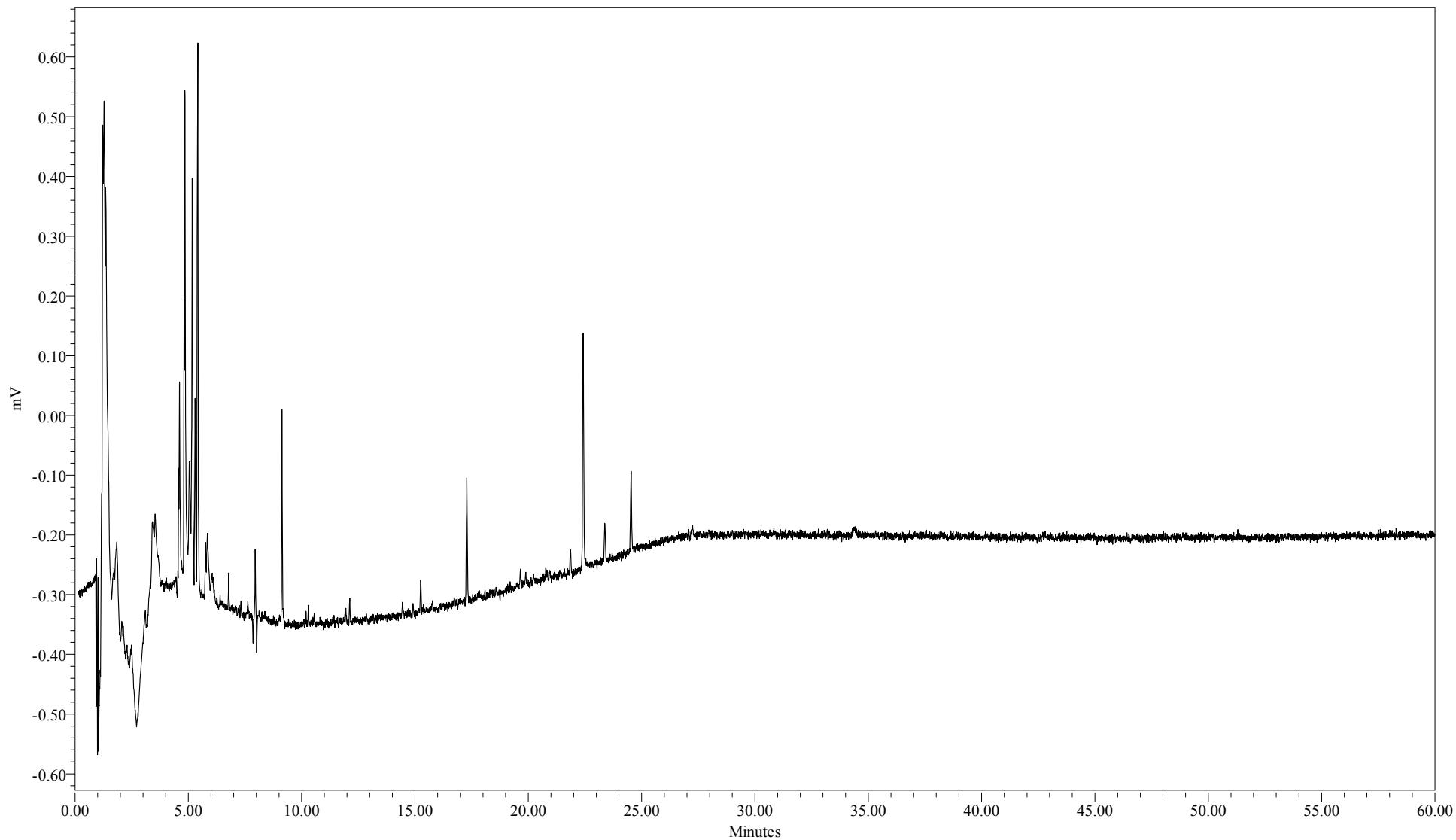
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ng/mL
30	39 (41,64,71,72)	20.567	6847	2.874	2.874
31	41 (68,96)	20.731	62	0.042	0.042
32	42 (40)	20.835	1495	0.779	0.779
33	43 (57,103)	21.068	65	0.033	0.033
34	44 (58,67,100)	21.241	260	0.099	0.099
35	45 (63)	21.402	360	0.139	0.139
36	46 (74,94,61)	21.571	3716	1.045	1.045
37	47 (70)	21.707	7059	2.481	2.481
38	48 (66,76,98,80,93,95,102,88)	21.823	9214	4.860	4.860
39	49 (55,91,121)	22.128	824	0.412	0.412
40	50 (56,60)	22.428	6560	2.507	2.507
41	51 (84,92,155)	22.673	1728	1.622	1.622
42	52 (89)	22.769	123	0.072	0.072
43	53 (90,101)	22.923	3090	1.289	1.289
44	54 (79,99,113)	23.115	1621	0.445	0.445
45	55 (119,150)	23.411	118	0.024	0.024
46	56 (78,83,112,108)	23.492	311	0.165	0.165
47	57 (97,152,86)	23.704	1437	0.483	0.483
48	58 (81,87,117,125,115,145)	23.878	2420	0.934	0.934
49	59 (116,85,111)	24.031	1335	0.429	0.429
50	60 (120,136)	24.164	1335	0.514	0.514
51	61 (77,110,148)	24.284	3673	1.607	1.607
52	63 (82)	24.657	1001	0.359	0.359
53	64 (151)	24.947	3341	1.312	1.312
54	65 (124,135)	25.085	874	0.195	0.195
55	66 (144)	25.142	637	0.465	0.465
56	67 (107,109,147)	25.197	257	0.109	0.109
57	68 (123)	25.295	95	0.038	0.038
58	69 (106,118,139,149)	25.396	7885	2.808	2.808
59	71 (114,134,143)	25.794	344	0.138	0.138
60	72 (122,131,133,142)	25.983	76	0.021	0.021
61	73 (146,165,188)	26.266	656	0.225	0.225
62	74 (105,132,161)	26.393	3358	0.900	0.900
63	75 (153)	26.546	6491	1.872	1.872
64	77 (141)	27.074	2134	1.047	1.047
65	78 (179)	27.152	3419	1.330	1.330
66	79 (137)	27.353	38	0.034	0.034
67	80 (130,176)	27.509	1016	0.195	0.195
68	82 (138,163,164)	27.727	4910	1.543	1.543
69	83 (158,160,186)	27.904	395	0.121	0.121
70	84 (126,129)	28.105	104	0.010	0.010
71	85 (166,178)	28.443	1495	0.896	0.896
72	87 (175,159)	28.741	285	0.184	0.184

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ng/mL
73	88 (182,187)	28.885	8905	2.853	2.853
74	89 (128,162)	28.997	297	0.068	0.068
75	90 (183)	29.185	3594	1.210	1.210
76	91 (167)	29.439	112	0.039	0.039
77	92 (185)	29.792	1566	0.371	0.371
78	93 (174,181)	30.161	7740	2.570	2.570
79	94 (177)	30.422	3434	1.302	1.302
80	95 (156,171)	30.716	1405	0.518	0.518
81	96 (157,202)	30.977	1292	0.065	0.065
82	98 (173)	31.162	104	0.031	0.031
83	99 (201)	31.514	924	0.366	0.366
84	100 (172,204)	31.740	910	0.373	0.373
85	101 (192,197)	32.030	164	0.081	0.081
86	102 (180)	32.215	14310	4.002	4.002
87	103 (193)	32.451	723	0.278	0.278
88	104 (191)	32.763	175	0.071	0.071
89	105 (200,169)	33.117	1136	0.393	0.393
90	106 (170)	34.250	4889	0.842	0.842
91	107 (190)	34.510	1202	0.260	0.260
92	108 (198)	35.376	352	0.101	0.101
93	109 (199)	35.604	7029	3.422	3.422
94	110 (196,203)	36.129	7071	3.105	3.105
95	111 (189)	37.253	71	0.023	0.023
96	112 (195)	38.811	2253	0.380	0.380
97	113 (208)	39.338	478	0.263	0.263
98	114 (207)	40.258	432	0.112	0.112
99	115 (194)	41.635	5532	1.118	1.118
100	116 (205)	42.481	284	0.076	0.076
101	117 (206)	47.559	2064	0.463	0.463
102	118 (209)	53.521	18	0.003	0.003
Sum					124.15

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Sample Name: 150731B06
Sample ID: HEXANE BLANK
Date Acquired: 7/31/2015 10:56:15 PM EDT

Sample Amount: 1
Dilution: 1
Processing Method: CSGB_LL1X_073115
LIMS File ID: GC24-I207-6 [A]

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Pace Analytical Services, Inc. SGD NO: 15080496
ELAP ID No: 11078
INSTRUMENT ID: GC24
GC COLUMN: Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm

Continuing Calibration Standard CCCS0824C

Lab File ID:	<u>GC24-1220-16</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/25/2015</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>06:27:13</u>	OCN (I.S.) Peak Area:	<u>82913</u>
		% Recovery of I.S. (50 - 150 %):	<u>131</u>

Continuing Calibration Standard CCCS0825A

Lab File ID:	<u>GC24-1221-8</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/25/2015</u>	Calculated Amount:	<u>114 ng/ml</u>
Time:	<u>17:23:10</u>	OCN (I.S.) Peak Area:	<u>87333</u>
		% Recovery of I.S. (50 - 150 %):	<u>138</u>

Continuing Calibration Standard CCCS0825B

Lab File ID:	<u>GC24-1221-12</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/25/2015</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>21:45:09</u>	OCN (I.S.) Peak Area:	<u>80487</u>
		% Recovery of I.S. (50 - 150 %):	<u>127</u>

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Pace Analytical Services, Inc. SGD NO: 15080496
ELAP ID No: 11078
INSTRUMENT ID: GC24
GC COLUMN: Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm

Continuing Calibration Standard CCCS0822A

Lab File ID:	<u>GC24-1219-4</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/22/2015</u>	Calculated Amount:	<u>125 ng/ml</u>
Time:	<u>19:37:57</u>	OCN (I.S.) Peak Area:	<u>73061</u>
		% Recovery of I.S. (50 - 150 %):	<u>115</u>

Continuing Calibration Standard CCCS0822B

Lab File ID:	<u>GC24-1219-14</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/23/2015</u>	Calculated Amount:	<u>124 ng/ml</u>
Time:	<u>06:33:41</u>	OCN (I.S.) Peak Area:	<u>70462</u>
		% Recovery of I.S. (50 - 150 %):	<u>111</u>

Continuing Calibration Standard CCCS0822C

Lab File ID:	<u>GC24-1219-18</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/23/2015</u>	Calculated Amount:	<u>121 ng/ml</u>
Time:	<u>10:55:53</u>	OCN (I.S.) Peak Area:	<u>74096</u>
		% Recovery of I.S. (50 - 150 %):	<u>117</u>

Pace Analytical Services, Inc.

PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0824C File ID: GC24-1220-16		Continuing Calibration CCCS0825A File ID: GC24-1221-8		Continuing Calibration CCCS0825B File ID: GC24-1221-12	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.17	-13.5	1.16	-13.8	1.19	-11.9
37 (104,44)	3.06	+/-15	3.13	2.20	3.05	-0.442	3.12	2.03
47 (70)	2.42	+/-15	2.31	-4.63	2.28	-5.65	2.34	-3.48
93 (174,181)	2.28	+/-15	2.46	7.91	2.39	4.71	2.44	6.90
102 (180)	4.35	+/-15	3.82	-12.2	3.76	-13.5	3.83	-11.9
116 (205)	0.0788	+/-30	0.0707	-10.3	0.0689	-12.6	0.0710	-9.92
Total CCCS Conc.	122	+/-15	117	-4.16	114	-6.43	117	-4.27

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) ¹ (Congener 15, 18 - Congener 17)
CCCS0824C	793 uV	397 uV	216 uV
CCCS0825A	788 uV	394 uV	223 uV
CCCS0825B	764 uV	382 uV	214 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) ² (Congener 105, 132, 161 - Congener 153)
CCCS0824C	903 uV	301 uV	80.0 uV
CCCS0825A	951 uV	317 uV	83.0 uV
CCCS0825B	890 uV	297 uV	81.0 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

Pace Analytical Services, Inc.

PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0822A File ID: GC24-1219-4		Continuing Calibration CCCS0822B File ID: GC24-1219-14		Continuing Calibration CCCS0822C File ID: GC24-1219-18	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.22	-9.30	1.24	-8.20	1.19	-11.7
37 (104,44)	3.06	+/-15	3.34	9.15	3.38	10.6	3.23	5.72
47 (70)	2.42	+/-15	2.46	1.77	2.47	1.91	2.43	0.262
93 (174,181)	2.28	+/-15	2.58	13.3	2.59	13.6	2.54	11.3
102 (180)	4.35	+/-15	4.06	-6.71	4.02	-7.53	3.94	-9.51
116 (205)	0.0788	+/-30	0.0716	-9.08	0.0901	14.3	0.0865	9.77
Total CCCS Conc.	122	+/-15	125	2.33	124	2.03	121	-0.448

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) ¹ (Congener 15, 18 - Congener 17)
CCCS0822A	758 uV	379 uV	206 uV
CCCS0822B	712 uV	356 uV	188 uV
CCCS0822C	737 uV	369 uV	207 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) ² (Congener 105, 132, 161 - Congener 153)
CCCS0822A	830 uV	277 uV	77.0 uV
CCCS0822B	814 uV	271 uV	80.0 uV
CCCS0822C	828 uV	276 uV	73.0 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0824C File ID: GC24-1220-16					
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.68				
2	3 (2)	+/-0.07					
3	4 (3)	+/-0.07	12.80				
4	5 (4,10)	+/-0.07	13.41				
5	6 (7,9)	+/-0.07	14.26				
6	7 (6)	+/-0.07	14.57				
7	8 (5,8)	+/-0.07	14.76				
8	9 (14)	+/-0.07					
9	10 (19)	+/-0.07	15.40				
10	11 (30)	+/-0.07					
11	12 (11)	+/-0.07					
12	13 (12,13)	+/-0.07	16.12				
13	14 (15,18)	+/-0.07	16.25				
14	15 (17)	+/-0.07	16.34				
15	16 (24,27)	+/-0.07	16.64				
16	17 (16,32)	+/-0.07	16.90				
17	19 (23,34,54)	+/-0.07	17.33				
18	20 (29)	+/-0.07	17.52				
19	21 (26)	+/-0.07	17.65				
20	22 (25)	+/-0.07	17.73				
21	23 (31)	+/-0.07	17.93				
22	24 (28,50)	+/-0.07	17.97				
23	25 (20,21,33,53)	+/-0.07	18.33				
24	26 (22,51)	+/-0.07	18.56				
25	27 (45)	+/-0.07	18.79				
26	28 (36)	+/-0.07					
27	29 (46)	+/-0.07	19.07				
28	30 (39)	+/-0.07					
29	31 (52,69,73)	+/-0.07	19.36				
30	32 (43,49)	+/-0.07	19.52				
31	33 (38,47)	+/-0.07	19.64				
32	34 (48,75)	+/-0.07	19.70				
33	35 (62,65)	+/-0.07					
34	36 (35)	+/-0.07	19.90				
35	37 (104,44)	+/-0.07	20.09				
36	38 (37,42,59)	+/-0.07	20.22				
37	39 (41,64,71,72)	+/-0.07	20.57				
38	41 (68,96)	+/-0.07	20.74				
39	42 (40)	+/-0.07	20.83				
40	43 (57,103)	+/-0.07	21.07				
41	44 (58,67,100)	+/-0.07	21.24				
42	45 (63)	+/-0.07	21.40				
43	46 (74,94,61)	+/-0.07	21.57				
44	47 (70)	+/-0.07	21.71				
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.82				
46	49 (55,91,121)	+/-0.07	22.13				
47	50 (56,60)	+/-0.07	22.43				
48	51 (84,92,155)	+/-0.07	22.67				
49	52 (89)	+/-0.07	22.77				
50	53 (90,101)	+/-0.07	22.92				
51	54 (79,99,113)	+/-0.07	23.12				
52	55 (119,150)	+/-0.07	23.40				
53	56 (78,83,112,108)	+/-0.07	23.49				
54	57 (97,152,86)	+/-0.07	23.71				
55	58 (81,87,117,125,115,145)	+/-0.07	23.88				
56	59 (116,85,111)	+/-0.07	24.03				

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0824C File ID: GC24-1220-16					
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.16				
58	61 (77,110,148)	+/-0.07	24.28				
59	62 (154)	+/-0.07					
60	63 (82)	+/-0.07	24.66				
61	64 (151)	+/-0.07	24.95				
62	65 (124,135)	+/-0.07	25.09				
63	66 (144)	+/-0.07	25.14				
64	67 (107,109,147)	+/-0.07	25.20				
65	68 (123)	+/-0.07	25.33				
66	69 (106,118,139,149)	+/-0.07	25.40				
67	70 (140)	+/-0.07					
68	71 (114,134,143)	+/-0.07	25.80				
69	72 (122,131,133,142)	+/-0.07	25.99				
70	73 (146,165,188)	+/-0.07	26.27				
71	74 (105,132,161)	+/-0.07	26.39				
72	75 (153)	+/-0.07	26.55				
73	76 (127,168,184)	+/-0.07					
74	77 (141)	+/-0.07	27.07				
75	78 (179)	+/-0.07	27.15				
76	79 (137)	+/-0.07	27.35				
77	80 (130,176)	+/-0.07	27.50				
78	82 (138,163,164)	+/-0.07	27.72				
79	83 (158,160,186)	+/-0.07	27.90				
80	84 (126,129)	+/-0.07	28.11				
81	85 (166,178)	+/-0.07	28.44				
82	87 (175,159)	+/-0.07	28.73				
83	88 (182,187)	+/-0.07	28.88				
84	89 (128,162)	+/-0.07	29.01				
85	90 (183)	+/-0.07	29.18				
86	91 (167)	+/-0.07	29.47				
87	92 (185)	+/-0.07	29.79				
88	93 (174,181)	+/-0.07	30.16				
89	94 (177)	+/-0.07	30.42				
90	95 (156,171)	+/-0.07	30.72				
91	96 (157,202)	+/-0.07	30.98				
92	98 (173)	+/-0.07	31.14				
93	99 (201)	+/-0.07	31.51				
94	100 (172,204)	+/-0.07	31.74				
95	101 (192,197)	+/-0.07	32.10				
96	102 (180)	+/-0.07	32.22				
97	103 (193)	+/-0.07	32.46				
98	104 (191)	+/-0.07	32.78				
99	105 (200,169)	+/-0.07	33.13				
100	106 (170)	+/-0.07	34.25				
101	107 (190)	+/-0.07	34.51				
102	108 (198)	+/-0.07	35.38				
103	109 (199)	+/-0.07	35.60				
104	110 (196,203)	+/-0.07	36.13				
105	111 (189)	+/-0.07	37.27				
106	112 (195)	+/-0.07	38.82				
107	113 (208)	+/-0.07	39.33				
108	114 (207)	+/-0.07	40.24				
109	115 (194)	+/-0.07	41.62				
110	116 (205)	+/-0.07	42.50				
111	117 (206)	+/-0.07	47.57				
112	118 (209)	+/-0.07	53.57				

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0825A File ID: GC24-1221-8		CCCS0825B File ID: GC24-1221-12			
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.68		11.68		
2	3 (2)	+/-0.07					
3	4 (3)	+/-0.07	12.80		12.80		
4	5 (4,10)	+/-0.07	13.41		13.41		
5	6 (7,9)	+/-0.07	14.26		14.26		
6	7 (6)	+/-0.07	14.57		14.57		
7	8 (5,8)	+/-0.07	14.76		14.76		
8	9 (14)	+/-0.07					
9	10 (19)	+/-0.07	15.40		15.40		
10	11 (30)	+/-0.07					
11	12 (11)	+/-0.07					
12	13 (12,13)	+/-0.07	16.11		16.12		
13	14 (15,18)	+/-0.07	16.25		16.25		
14	15 (17)	+/-0.07	16.34		16.34		
15	16 (24,27)	+/-0.07	16.64		16.64		
16	17 (16,32)	+/-0.07	16.90		16.90		
17	19 (23,34,54)	+/-0.07	17.34		17.35		
18	20 (29)	+/-0.07	17.51		17.52		
19	21 (26)	+/-0.07	17.65		17.65		
20	22 (25)	+/-0.07	17.73		17.73		
21	23 (31)	+/-0.07	17.93		17.93		
22	24 (28,50)	+/-0.07	17.97		17.97		
23	25 (20,21,33,53)	+/-0.07	18.33		18.33		
24	26 (22,51)	+/-0.07	18.56		18.56		
25	27 (45)	+/-0.07	18.79		18.79		
26	28 (36)	+/-0.07					
27	29 (46)	+/-0.07	19.07		19.07		
28	30 (39)	+/-0.07					
29	31 (52,69,73)	+/-0.07	19.36		19.35		
30	32 (43,49)	+/-0.07	19.52		19.52		
31	33 (38,47)	+/-0.07	19.63		19.64		
32	34 (48,75)	+/-0.07	19.70		19.70		
33	35 (62,65)	+/-0.07					
34	36 (35)	+/-0.07	19.91		19.93		
35	37 (104,44)	+/-0.07	20.09		20.09		
36	38 (37,42,59)	+/-0.07	20.22		20.22		
37	39 (41,64,71,72)	+/-0.07	20.57		20.57		
38	41 (68,96)	+/-0.07	20.75		20.73		
39	42 (40)	+/-0.07	20.83		20.84		
40	43 (57,103)	+/-0.07	21.04		21.05		
41	44 (58,67,100)	+/-0.07	21.25		21.25		
42	45 (63)	+/-0.07	21.41		21.40		
43	46 (74,94,61)	+/-0.07	21.57		21.57		
44	47 (70)	+/-0.07	21.71		21.71		
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.82		21.82		
46	49 (55,91,121)	+/-0.07	22.13		22.13		
47	50 (56,60)	+/-0.07	22.43		22.43		
48	51 (84,92,155)	+/-0.07	22.67		22.68		
49	52 (89)	+/-0.07	22.78		22.78		
50	53 (90,101)	+/-0.07	22.92		22.92		
51	54 (79,99,113)	+/-0.07	23.12		23.12		
52	55 (119,150)	+/-0.07	23.40		23.39		
53	56 (78,83,112,108)	+/-0.07	23.49		23.49		
54	57 (97,152,86)	+/-0.07	23.71		23.70		
55	58 (81,87,117,125,115,145)	+/-0.07	23.88		23.88		
56	59 (116,85,111)	+/-0.07	24.03		24.03		

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0825A File ID: GC24-1221-8		CCCS0825B File ID: GC24-1221-12			
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.16		24.17		
58	61 (77,110,148)	+/-0.07	24.28		24.28		
59	62 (154)	+/-0.07					
60	63 (82)	+/-0.07	24.66		24.65		
61	64 (151)	+/-0.07	24.95		24.95		
62	65 (124,135)	+/-0.07	25.08		25.08		
63	66 (144)	+/-0.07	25.14		25.14		
64	67 (107,109,147)	+/-0.07	25.21		25.18		
65	68 (123)	+/-0.07	25.29		25.29		
66	69 (106,118,139,149)	+/-0.07	25.40		25.39		
67	70 (140)	+/-0.07					
68	71 (114,134,143)	+/-0.07	25.79		25.79		
69	72 (122,131,133,142)	+/-0.07	25.97		25.99		
70	73 (146,165,188)	+/-0.07	26.27		26.27		
71	74 (105,132,161)	+/-0.07	26.40		26.40		
72	75 (153)	+/-0.07	26.55		26.55		
73	76 (127,168,184)	+/-0.07					
74	77 (141)	+/-0.07	27.07		27.07		
75	78 (179)	+/-0.07	27.15		27.15		
76	79 (137)	+/-0.07	27.35		27.36		
77	80 (130,176)	+/-0.07	27.51		27.51		
78	82 (138,163,164)	+/-0.07	27.72		27.73		
79	83 (158,160,186)	+/-0.07	27.90		27.90		
80	84 (126,129)	+/-0.07	28.11		28.12		
81	85 (166,178)	+/-0.07	28.45		28.45		
82	87 (175,159)	+/-0.07	28.74		28.74		
83	88 (182,187)	+/-0.07	28.89		28.88		
84	89 (128,162)	+/-0.07	29.00		29.00		
85	90 (183)	+/-0.07	29.19		29.18		
86	91 (167)	+/-0.07	29.45		29.45		
87	92 (185)	+/-0.07	29.78		29.79		
88	93 (174,181)	+/-0.07	30.16		30.16		
89	94 (177)	+/-0.07	30.42		30.42		
90	95 (156,171)	+/-0.07	30.72		30.71		
91	96 (157,202)	+/-0.07	30.98		30.98		
92	98 (173)	+/-0.07	31.16		31.14		
93	99 (201)	+/-0.07	31.51		31.52		
94	100 (172,204)	+/-0.07	31.74		31.74		
95	101 (192,197)	+/-0.07	32.08		32.09		
96	102 (180)	+/-0.07	32.22		32.21		
97	103 (193)	+/-0.07	32.46		32.45		
98	104 (191)	+/-0.07	32.77		32.77		
99	105 (200,169)	+/-0.07	33.13		33.12		
100	106 (170)	+/-0.07	34.25		34.25		
101	107 (190)	+/-0.07	34.52		34.51		
102	108 (198)	+/-0.07	35.37		35.39		
103	109 (199)	+/-0.07	35.60		35.61		
104	110 (196,203)	+/-0.07	36.13		36.13		
105	111 (189)	+/-0.07	37.28		37.27		
106	112 (195)	+/-0.07	38.82		38.81		
107	113 (208)	+/-0.07	39.34		39.33		
108	114 (207)	+/-0.07	40.28		40.24		
109	115 (194)	+/-0.07	41.63		41.63		
110	116 (205)	+/-0.07	42.48		42.49		
111	117 (206)	+/-0.07	47.55		47.57		
112	118 (209)	+/-0.07	53.55		53.50		

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0822A File ID: GC24-1219-4		CCCS0822B File ID: GC24-1219-14		CCCS0822C File ID: GC24-1219-18	
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.68		11.68		11.68
2	3 (2)	+/-0.07					
3	4 (3)	+/-0.07	12.80		12.80		12.80
4	5 (4,10)	+/-0.07	13.41		13.41		13.41
5	6 (7,9)	+/-0.07	14.26		14.26		14.26
6	7 (6)	+/-0.07	14.57		14.57		14.57
7	8 (5,8)	+/-0.07	14.76		14.76		14.76
8	9 (14)	+/-0.07					
9	10 (19)	+/-0.07	15.40		15.40		15.40
10	11 (30)	+/-0.07					
11	12 (11)	+/-0.07					
12	13 (12,13)	+/-0.07	16.12		16.11		16.13
13	14 (15,18)	+/-0.07	16.25		16.25		16.25
14	15 (17)	+/-0.07	16.34		16.34		16.34
15	16 (24,27)	+/-0.07	16.64		16.64		16.64
16	17 (16,32)	+/-0.07	16.90		16.90		16.90
17	19 (23,34,54)	+/-0.07	17.34		17.35		17.34
18	20 (29)	+/-0.07	17.53		17.51		17.52
19	21 (26)	+/-0.07	17.64		17.64		17.65
20	22 (25)	+/-0.07	17.73		17.73		17.73
21	23 (31)	+/-0.07	17.92		17.93		17.93
22	24 (28,50)	+/-0.07	17.97		17.97		17.97
23	25 (20,21,33,53)	+/-0.07	18.33		18.33		18.33
24	26 (22,51)	+/-0.07	18.56		18.56		18.56
25	27 (45)	+/-0.07	18.79		18.79		18.79
26	28 (36)	+/-0.07					
27	29 (46)	+/-0.07	19.07		19.07		19.07
28	30 (39)	+/-0.07					
29	31 (52,69,73)	+/-0.07	19.35		19.36		19.35
30	32 (43,49)	+/-0.07	19.52		19.52		19.52
31	33 (38,47)	+/-0.07	19.63		19.64		19.63
32	34 (48,75)	+/-0.07	19.70		19.70		19.70
33	35 (62,65)	+/-0.07					
34	36 (35)	+/-0.07	19.92		19.92		19.91
35	37 (104,44)	+/-0.07	20.09		20.09		20.09
36	38 (37,42,59)	+/-0.07	20.22		20.22		20.22
37	39 (41,64,71,72)	+/-0.07	20.57		20.57		20.57
38	41 (68,96)	+/-0.07	20.75		20.74		20.73
39	42 (40)	+/-0.07	20.83		20.84		20.83
40	43 (57,103)	+/-0.07	21.08		21.07		21.08
41	44 (58,67,100)	+/-0.07	21.25		21.25		21.24
42	45 (63)	+/-0.07	21.40		21.40		21.40
43	46 (74,94,61)	+/-0.07	21.57		21.57		21.57
44	47 (70)	+/-0.07	21.71		21.71		21.71
45	48 (66,76,98,80,93,105,102,88)	+/-0.07	21.82		21.82		21.82
46	49 (55,91,121)	+/-0.07	22.13		22.12		22.13
47	50 (56,60)	+/-0.07	22.43		22.43		22.43
48	51 (84,92,155)	+/-0.07	22.67		22.68		22.67
49	52 (89)	+/-0.07	22.78		22.77		22.78
50	53 (90,101)	+/-0.07	22.92		22.92		22.92
51	54 (79,99,113)	+/-0.07	23.12		23.12		23.12
52	55 (119,150)	+/-0.07	23.39		23.40		23.39
53	56 (78,83,112,108)	+/-0.07	23.50		23.49		23.50
54	57 (97,152,86)	+/-0.07	23.71		23.71		23.70
55	58 (81,87,117,125,115,145)	+/-0.07	23.88		23.88		23.88
56	59 (116,85,111)	+/-0.07	24.03		24.03		24.03

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822A	CCCS0822A File ID: GC24-1219-4		CCCS0822B File ID: GC24-1219-14		CCCS0822C File ID: GC24-1219-18	
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.17		24.16		24.16
58	61 (77,110,148)	+/-0.07	24.28		24.28		24.29
59	62 (154)	+/-0.07					
60	63 (82)	+/-0.07	24.66		24.66		24.65
61	64 (151)	+/-0.07	24.95		24.95		24.94
62	65 (124,135)	+/-0.07	25.09		25.08		25.08
63	66 (144)	+/-0.07	25.14		25.14		25.14
64	67 (107,109,147)	+/-0.07	25.18		25.20		25.19
65	68 (123)	+/-0.07	25.29		25.33		25.30
66	69 (106,118,139,149)	+/-0.07	25.40		25.39		25.39
67	70 (140)	+/-0.07					
68	71 (114,134,143)	+/-0.07	25.79		25.79		25.79
69	72 (122,131,133,142)	+/-0.07	25.99		25.99		25.97
70	73 (146,165,188)	+/-0.07	26.27		26.27		26.27
71	74 (105,132,161)	+/-0.07	26.40		26.40		26.40
72	75 (153)	+/-0.07	26.54		26.54		26.55
73	76 (127,168,184)	+/-0.07					
74	77 (141)	+/-0.07	27.07		27.07		27.07
75	78 (179)	+/-0.07	27.15		27.15		27.15
76	79 (137)	+/-0.07	27.35		27.35		27.36
77	80 (130,176)	+/-0.07	27.51		27.51		27.50
78	82 (138,163,164)	+/-0.07	27.72		27.72		27.72
79	83 (158,160,186)	+/-0.07	27.91		27.90		27.90
80	84 (126,129)	+/-0.07	28.11		28.10		28.11
81	85 (166,178)	+/-0.07	28.44		28.44		28.44
82	87 (175,159)	+/-0.07	28.75		28.73		28.74
83	88 (182,187)	+/-0.07	28.88		28.88		28.88
84	89 (128,162)	+/-0.07	29.00		29.01		29.00
85	90 (183)	+/-0.07	29.18		29.18		29.18
86	91 (167)	+/-0.07	29.42		29.45		29.43
87	92 (185)	+/-0.07	29.79		29.79		29.78
88	93 (174,181)	+/-0.07	30.16		30.16		30.16
89	94 (177)	+/-0.07	30.42		30.42		30.42
90	95 (156,171)	+/-0.07	30.71		30.71		30.71
91	96 (157,202)	+/-0.07	30.98		30.98		30.97
92	98 (173)	+/-0.07	31.13		31.17		31.14
93	99 (201)	+/-0.07	31.52		31.51		31.51
94	100 (172,204)	+/-0.07	31.75		31.74		31.74
95	101 (192,197)	+/-0.07	32.05		32.04		32.03
96	102 (180)	+/-0.07	32.21		32.21		32.21
97	103 (193)	+/-0.07	32.46		32.45		32.45
98	104 (191)	+/-0.07	32.75		32.75		32.77
99	105 (200,169)	+/-0.07	33.12		33.13		33.12
100	106 (170)	+/-0.07	34.25		34.25		34.25
101	107 (190)	+/-0.07	34.51		34.50		34.49
102	108 (198)	+/-0.07	35.36		35.36		35.36
103	109 (199)	+/-0.07	35.60		35.60		35.61
104	110 (196,203)	+/-0.07	36.13		36.13		36.13
105	111 (189)	+/-0.07	37.34		37.27		37.29
106	112 (195)	+/-0.07	38.82		38.81		38.80
107	113 (208)	+/-0.07	39.33		39.32		39.33
108	114 (207)	+/-0.07	40.24		40.25		40.26
109	115 (194)	+/-0.07	41.63		41.63		41.62
110	116 (205)	+/-0.07	42.49		42.50		42.47
111	117 (206)	+/-0.07	47.58		47.56		47.58
112	118 (209)	+/-0.07	53.57		53.51		53.56

CALIBRATION COMPONENT SUMMARY TABLE (GC24)

Project Name: GC24_Jan_2015 Current Time: 15:33:25
 Sample Set Name: GC24_CC_073115 Current Date: 9/24/2015
 Processing Method: CSGB_LL1X_073115 Calibration ID: 8609
 Run Time: 60 Minutes Calibration Date(s): 08/01/2015

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.996775	Y = 2.88e-002 X + 1.03e-003	0.00102651303977475	0.0288340506452584
2	3 (2)	1.000000	Y = 3.88e-003 X	0	0.00387778471764063
3	4 (3)	0.994852	Y = 1.69e-002 X + 6.26e-004	0.000626106054373618	0.0168656079073557
4	5 (4,10)	0.998135	Y = 6.76e-002 X + 1.96e-003	0.00196200268894831	0.0675926438152634
5	6 (7,9)	0.996411	Y = 4.58e-001 X + 1.37e-003	0.00136953129446438	0.458071298627806
6	7 (6)	0.996633	Y = 2.25e-001 X + 4.68e-003	0.00468265460989103	0.224548345578964
7	8 (5,8)	0.995468	Y = 1.18e-001 X + 1.57e-002	0.0157137274358399	0.117679003588438
8	9 (14)	1.000000	Y = 1.74e-001 X	0	0.173627530131083
9	10 (19)	0.998911	Y = 3.47e-001 X + 1.06e-003	0.00105992354677192	0.347333451995617
10	11 (30)	1.000000	Y = 6.20e-001 X	0	0.619817070250135
11	12 (11)	1.000000	Y = 5.90e-002 X	0	0.058965783515521
12	13 (12,13)	0.997212	Y = 3.09e-001 X - 7.38e-004	-0.00073795351976740	0.3089396996867
13	14 (15,18)	0.995779	Y = 3.90e-001 X + 7.26e-003	0.00725889268700741	0.390178387931733
14	15 (17)	0.997279	Y = 1.79e-001 X + 3.41e-003	0.00341090909722008	0.17942048397138
15	16 (24,27)	0.999309	Y = 5.40e-001 X - 1.54e-004	-0.00015353805179108	0.540158632611755
16	17 (16,32)	0.996663	Y = 3.17e-001 X + 3.19e-003	0.00318798021589251	0.317121352895997
17	19 (23,34,54)	1.000000	Y = 3.84e-001 X	0	0.3842355969687
18	20 (29)	0.997094	Y = 4.08e-001 X + 2.34e-004	0.000234261917647534	0.407510113808763
19	21 (26)	0.996479	Y = 4.08e-001 X + 3.07e-003	0.00306635892485152	0.407619087734176
20	22 (25)	0.996118	Y = 5.07e-001 X + 1.26e-003	0.00125670162734576	0.50713515065146
21	23 (31)	0.996228	Y = 5.17e-001 X + 1.10e-002	0.0110176538380549	0.516689213320691
22	24 (28,50)	0.995297	Y = 5.55e-001 X + 2.66e-002	0.0265664279662157	0.555011221900939
23	25 (20,21,33,53)	0.996262	Y = 4.34e-001 X + 1.08e-002	0.0107640173567798	0.434282511818911
24	26 (22,51)	0.996455	Y = 4.01e-001 X + 1.12e-002	0.0111670973111502	0.400818726878712
25	27 (45)	0.997985	Y = 4.55e-001 X + 6.93e-004	0.000693008108533011	0.454896338382609
26	28 (36)	1.000000	Y = 3.01e-001 X	0	0.301454464102971
27	29 (46)	0.999159	Y = 3.99e-001 X + 4.16e-004	0.000416184959210253	0.399262833652039
28	30 (39)	1.000000	Y = 2.92e-001 X	0	0.291800824617278
29	31 (52,69,73)	0.995002	Y = 3.60e-001 X + 1.44e-002	0.0144241827752067	0.359770114607428
30	32 (43,49)	0.995252	Y = 7.07e-001 X + 9.15e-003	0.00914666967789812	0.70734544220243
31	33 (38,47)	0.994513	Y = 1.04e+000 X + 9.88e-003	0.0098800643643872	1.03859875058131
32	34 (48,75)	0.995705	Y = 6.86e-001 X + 2.50e-003	0.00249825986072438	0.686401062518244
33	35 (62,65)	1.000000	Y = 7.27e-001 X	0	0.72666154622092
34	36 (35)	1.000000	Y = 2.82e-001 X	0	0.282048017867529
35	37 (104,44)	0.996250	Y = 5.38e-001 X + 1.57e-002	0.0157477320401864	0.537510412725179
36	38 (37,42,59)	0.994502	Y = 4.31e-001 X + 9.22e-003	0.0092198074440093	0.43067525973895
37	39 (41,64,71,72)	0.995102	Y = 6.85e-001 X + 1.04e-002	0.0104277638369985	0.685238854011477
38	41 (68,96)	1.000000	Y = 4.27e-001 X	0	0.426967565419212

Project Name: GC24_Jan_2015 Current Time: 15:33:26
 Sample Set Name: GC24_CC_073115 Current Date: 9/24/2015
 Processing Method: CSGB_LL1X_073115 Calibration ID: 8609
 Run Time: 60 Minutes Calibration Date(s): 08/01/2015

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.996840	Y = 5.50e-001 X + 4.29e-003	0.00429180942349922	0.54966636108424
40	43 (57,103)	1.000000	Y = 5.80e-001 X	0	0.579609096065688
41	44 (58,67,100)	0.995676	Y = 7.54e-001 X + 1.83e-004	0.00018280922741995	0.753993864893747
42	45 (63)	0.998051	Y = 7.47e-001 X + 5.18e-004	0.0005179534334179	0.747061773525534
43	46 (74,94,61)	0.995178	Y = 1.01e+000 X + 1.52e-002	0.0152337548132877	1.01301940032136
44	47 (70)	0.994853	Y = 8.15e-001 X + 1.88e-002	0.0188439814905066	0.815129803007593
45	48 (66,76,98,80,93,95,102,88)	0.995231	Y = 5.39e-001 X + 4.22e-002	0.0422247714454329	0.539473032994917
46	49 (55,91,121)	0.994646	Y = 5.75e-001 X + 1.37e-003	0.00137456625954369	0.575369231593752
47	50 (56,60)	0.999411	Y = 7.59e-001 X - 5.30e-003	-0.00530183003986107	0.75868238260769
48	51 (84,92,155)	0.995931	Y = 3.06e-001 X + 4.10e-003	0.00410231662981031	0.305564421121179
49	52 (89)	0.999986	Y = 4.93e-001 X - 3.98e-005	-3.982498064449E-5	0.493292136473034
50	53 (90,101)	0.995311	Y = 6.85e-001 X + 1.00e-002	0.0100459315281456	0.685477401457618
51	54 (79,99,113)	0.996077	Y = 1.04e+000 X + 5.04e-003	0.00504205041654315	1.0420835208464
52	55 (119,150)	0.999378	Y = 1.43e+000 X - 4.99e-004	-0.00049913919254854	1.43049945335548
53	56 (78,83,112,108)	0.998272	Y = 5.42e-001 X + 5.61e-004	0.000560962934579426	0.541594259632115
54	57 (97,152,86)	0.996840	Y = 8.57e-001 X + 9.83e-004	0.000982768281141522	0.857488211073888
55	58 (81,87,117,125,115,145)	0.996217	Y = 7.42e-001 X + 6.26e-003	0.00626488154963511	0.742318253200445
56	59 (116,85,111)	0.997162	Y = 9.01e-001 X - 6.71e-004	-0.00067052022569158	0.900832905961365
57	60 (120,136)	0.997013	Y = 7.45e-001 X + 3.22e-003	0.00322123565240406	0.744639704066759
58	61 (77,110,148)	0.996178	Y = 6.55e-001 X + 9.62e-003	0.0096212220099634	0.654708104832867
59	62 (154)	1.000000	Y = 6.72e-001 X	0	0.671541409130377
60	63 (82)	0.996551	Y = 7.97e-001 X + 2.85e-003	0.00285209729371833	0.797018512430951
61	64 (151)	0.995825	Y = 7.29e-001 X + 9.25e-003	0.0092536943062147	0.729302549134861
62	65 (124,135)	0.999743	Y = 1.29e+000 X + 1.10e-003	0.0011022770201875	1.29146168624546
63	66 (144)	0.996466	Y = 3.94e-001 X + 1.05e-003	0.00104857148655893	0.393885734576499
64	67 (107,109,147)	0.997321	Y = 6.70e-001 X + 1.39e-003	0.00139363022347468	0.670125048401928
65	68 (123)	1.000000	Y = 7.32e-001 X	0	0.731583657710549
66	69 (106,118,139,149)	0.995320	Y = 8.01e-001 X + 3.01e-002	0.0300510825583844	0.801171286615651
67	70 (140)	1.000000	Y = 7.56e-001 X	0	0.755709225984104
68	71 (114,134,143)	0.999907	Y = 7.20e-001 X + 2.92e-004	0.000291726385480223	0.720208827686655
69	72 (122,131,133,142)	0.999583	Y = 1.07e+000 X - 1.73e-004	-0.00017288213262953	1.06609104165466
70	73 (146,165,188)	0.997401	Y = 8.29e-001 X + 3.27e-003	0.00326735297133823	0.829173722642548
71	74 (105,132,161)	0.996540	Y = 1.08e+000 X + 1.85e-003	0.0018487750121845	1.07681367607425
72	75 (153)	0.994782	Y = 9.88e-001 X + 2.68e-002	0.0268264242314724	0.988115191021499
73	76 (127,168,184)	1.000000	Y = 6.51e-001 X	0	0.650637466897876
74	77 (141)	0.999126	Y = 5.86e-001 X + 3.14e-003	0.00314347389074898	0.586398143066659
75	78 (179)	0.998158	Y = 7.46e-001 X - 3.14e-003	-0.00314432531297504	0.745709552081653
76	79 (137)	0.999994	Y = 3.27e-001 X - 1.07e-004	-0.00010661784802138	0.326920085971984

Project Name: GC24_Jan_2015 Current Time: 15:33:26
 Sample Set Name: GC24_CC_073115 Current Date: 9/24/2015
 Processing Method: CSGB_LL1X_073115 Calibration ID: 8609
 Run Time: 60 Minutes Calibration Date(s): 08/01/2015

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.996537	Y = 1.50e+000 X + 9.50e-004	0.000950047074752602	1.50005104274954
78	82 (138,163,164)	0.996407	Y = 9.13e-001 X + 1.11e-002	0.0110613968127566	0.913100226827286
79	83 (158,160,186)	0.998532	Y = 9.35e-001 X + 9.64e-004	0.000964310215035097	0.934600776735881
80	84 (126,129)	0.999825	Y = 3.03e+000 X + 6.08e-004	0.000607907628559418	3.02919996936906
81	85 (166,178)	0.995680	Y = 4.81e-001 X + 1.79e-003	0.00179031310673677	0.480630789895567
82	87 (175,159)	0.999759	Y = 4.49e-001 X - 1.86e-004	-0.00018617095452912	0.448939483495212
83	88 (182,187)	0.996184	Y = 8.93e-001 X + 2.54e-002	0.0254086364304285	0.893384812897962
84	89 (128,162)	0.999655	Y = 1.27e+000 X - 2.73e-004	-0.00027250086828677	1.27434450289846
85	90 (183)	0.998064	Y = 8.53e-001 X + 7.35e-003	0.00735394186526861	0.853004112790107
86	91 (167)	0.998299	Y = 8.22e-001 X + 4.06e-004	0.000406429366229179	0.822256756290358
87	92 (185)	0.998039	Y = 1.22e+000 X - 2.13e-004	-0.00021347834121388	1.22049318208354
88	93 (174,181)	0.996256	Y = 8.65e-001 X + 1.47e-002	0.0147188506219842	0.864987549828636
89	94 (177)	0.996658	Y = 7.61e-001 X + 2.18e-003	0.00218158402496837	0.760606468801186
90	95 (156,171)	0.998227	Y = 7.89e-001 X - 2.24e-003	-0.00224396562709028	0.789063062489721
91	96 (157,202)	0.996039	Y = 5.75e+000 X + 1.39e-003	0.00139001550322726	5.75361191041231
92	98 (173)	0.999848	Y = 9.72e-001 X + 9.59e-005	9.58628508658937E-5	0.971511099761691
93	99 (201)	0.999335	Y = 7.28e-001 X + 6.11e-004	0.000611355538849501	0.728300830288421
94	100 (172,204)	0.997804	Y = 6.97e-001 X + 3.53e-003	0.00353284939357046	0.696587422273386
95	101 (192,197)	0.999303	Y = 5.75e-001 X + 7.47e-004	0.000747250963801294	0.575354551624154
96	102 (180)	0.997012	Y = 1.02e+000 X + 4.65e-002	0.0465198552228276	1.02227634857583
97	103 (193)	0.998772	Y = 7.56e-001 X - 1.35e-003	-0.00135498305204296	0.756192587623904
98	104 (191)	0.997990	Y = 7.16e-001 X - 1.57e-004	-0.00015707048934093	0.716135368970914
99	105 (200,169)	0.997558	Y = 8.30e-001 X + 2.55e-003	0.00254732997065876	0.829920469862262
100	106 (170)	0.999626	Y = 1.69e+000 X - 1.14e-002	-0.0113829345381005	1.69215352381339
101	107 (190)	0.999464	Y = 1.33e+000 X + 2.38e-003	0.00238437686740145	1.32870638850441
102	108 (198)	0.999555	Y = 1.01e+000 X - 3.53e-004	-0.00035299005445903	1.01039210544727
103	109 (199)	0.997170	Y = 5.92e-001 X + 5.34e-003	0.00534219828761051	0.592243097115898
104	110 (196,203)	0.997665	Y = 6.53e-001 X + 1.72e-002	0.0171863217317436	0.652839451635882
105	111 (189)	0.999915	Y = 9.00e-001 X - 1.25e-004	-0.00012544611749292	0.899939114360994
106	112 (195)	0.998816	Y = 1.71e+000 X + 1.24e-003	0.00123604321585369	1.71014204809439
107	113 (208)	0.999629	Y = 5.18e-001 X + 1.84e-003	0.00183561437630544	0.517510850579984
108	114 (207)	0.999868	Y = 1.12e+000 X - 5.74e-004	-0.00057417246537343	1.11633999257435
109	115 (194)	0.997503	Y = 1.43e+000 X + 3.61e-004	0.000360723098637106	1.42972052041454
110	116 (205)	0.999751	Y = 1.08e+000 X - 2.21e-004	-0.00022095938194816	1.07584501497204
111	117 (206)	0.995921	Y = 1.28e+000 X + 4.89e-003	0.00489370981449322	1.27961462446578
112	118 (209)	0.999507	Y = 1.57e+000 X + 1.59e-004	0.0001585172365185	1.57280307578436
113	I.S. (OCN)	1.000000	Y = 3.50e+003 X	0	3497.56557705488

STANDARDS SUMMARY TABLE (GC30)

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
www.pacelabs.com

Sample Set Name: GC30_CC_052015
Project Name: GC30_Jan_2015
Sample Set Start Date: 5/20/2015 7:39:15 PM EDT
Current Date: 5/21/2015
Report Name: CSGB_SumRpt_FDCB_AVG_

ICAL FDCB Area Summary Report

	Sample Name	Sample ID	Date Acquired	FDCB Area
1	ICBZ0520A	IUPAC 4-10 0.100 ng/mL	5/20/2015 11:52:11 PM EDT	85142
2	ICBZ0520B	IUPAC 4-10 0.500 ng/mL	5/21/2015 12:39:28 AM EDT	85271
3	ICBZ0520C	IUPAC 4-10 5.0 ng/mL	5/21/2015 1:26:42 AM EDT	86430
4	ICBZ0520D	IUPAC 4-10 25.0 ng/mL	5/21/2015 2:13:57 AM EDT	87272
5	ICBZ0520E	IUPAC 4-10 50.0 ng/mL	5/21/2015 3:01:06 AM EDT	85758
Mean				85975

Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
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System Name:	Instrument_30	Date Calibrated:	5/21/2015 4:43:59 PM EDT
Sample Set Name:	GC30_CC_052015	Method Report:	CSGB CCSum by RF
Sample Set Date:	5/20/2015 7:39:15 PM EDT	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015		

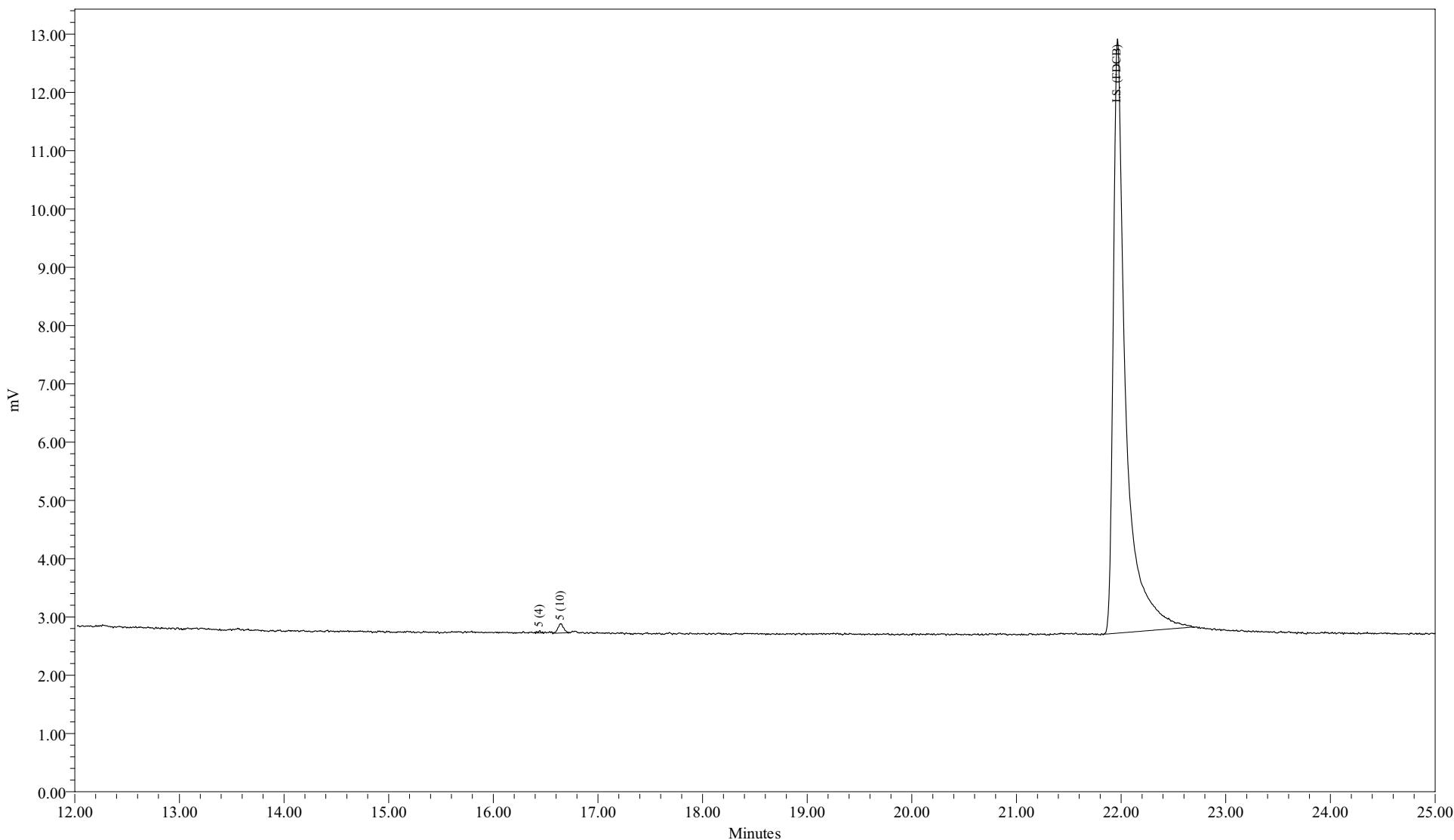
Calibration Component Summary

Table

Component Summary For RF

	Sample Name	5 (4)	5 (10)
1	ICBZ0520A	0.183057	1.286352
2	ICBZ0520B	0.182466	1.176330
3	ICBZ0520C	0.180018	1.205850
4	ICBZ0520D	0.176518	1.097524
5	ICBZ0520E	0.170303	1.050231
Mean		0.178	1.163
Std. Dev.		0.005	0.093
% RSD		2.94	7.95

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Sample Name:	ICBZ0520A	Sample Amount:	1
Sample ID:	IUPAC 4-10 0.100 ng/mL	Dilution:	1
Date Acquired:	5/20/2015 11:52:11 PM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30-453-6 [m]

Sample Name: ICBZ0520A

1 of 1

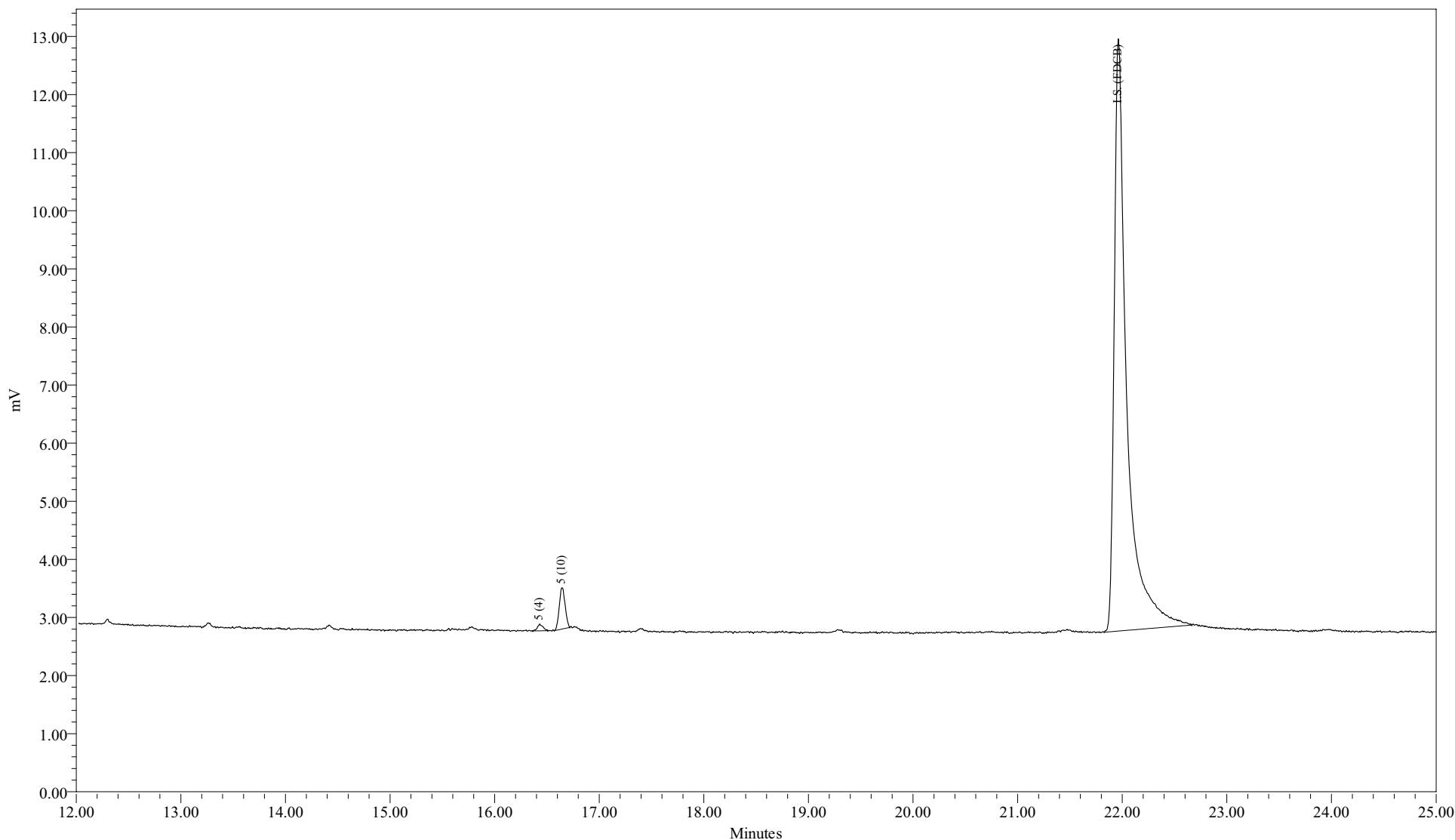
Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	ICBZ0520A	Sample Amount:	1
Sample ID:	IUPAC 4-10 0.100 ng/mL	Dilution:	1
Date Acquired:	5/20/2015 11:52:11 PM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:43:47 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:21 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC30-453-6 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	5 (4)	16.445	86	0.100	0.100	0.183057
2	5 (10)	16.645	602	0.100	0.100	1.286352
3	I.S. (FDCB)	21.965	85142	18.180	18.180	4683.299983

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Sample Name: ICBZ0520B
Sample ID: IUPAC 4-10 0.500 ng/mL
Date Acquired: 5/21/2015 12:39:28 AM EDT

Sample Amount: 1
Dilution: 1
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-453-7 [m]

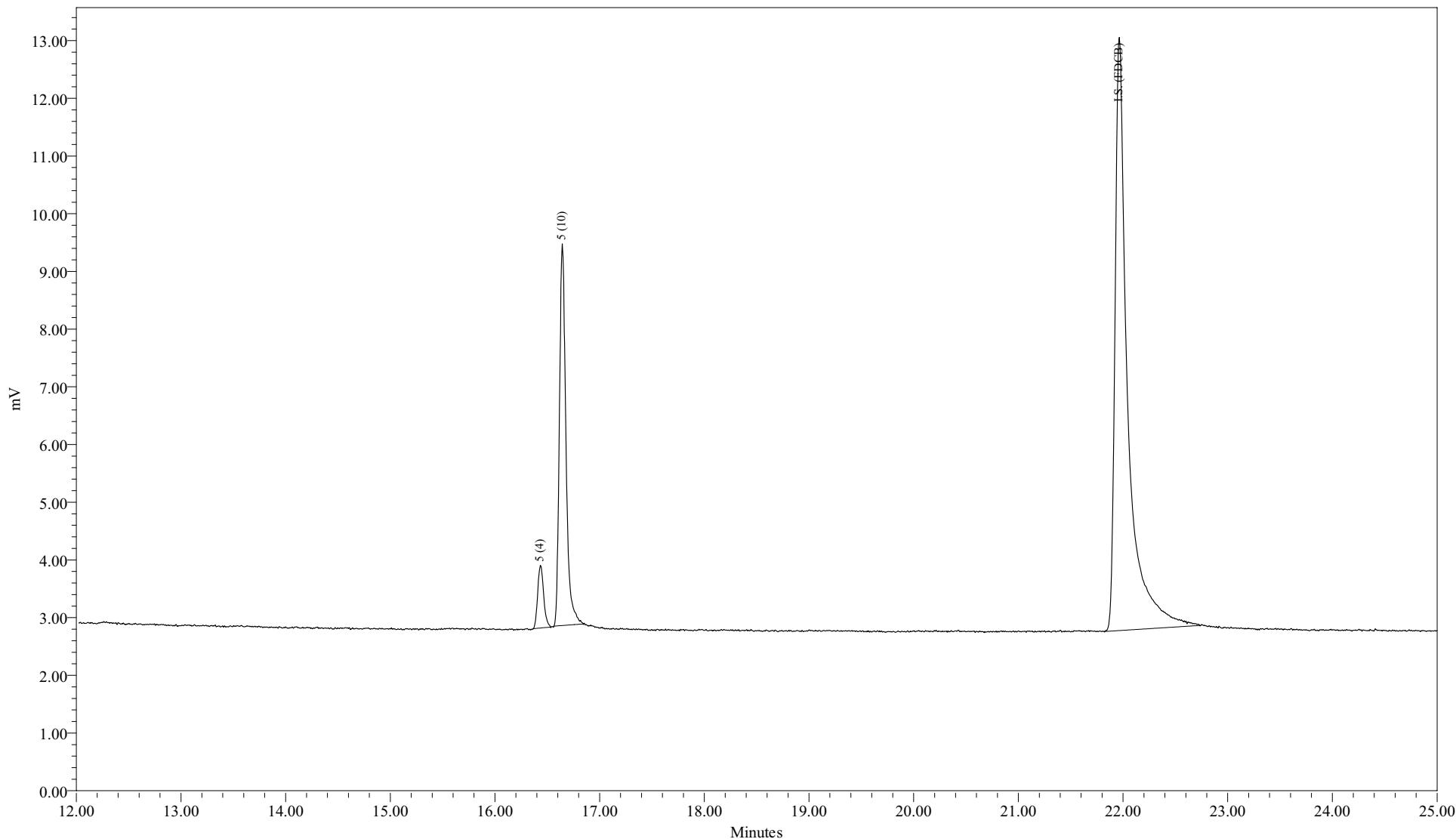
Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	ICBZ0520B	Sample Amount:	1
Sample ID:	IUPAC 4-10 0.500 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 12:39:28 AM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:43:49 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:21 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC30-453-7 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	5 (4)	16.430	428	0.500	0.500	0.182466
2	5 (10)	16.643	2759	0.500	0.500	1.176330
3	I.S. (FDCB)	21.962	85271	18.180	18.180	4690.394962

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Sample Name:
Sample ID:
Date Acquired:

ICBZ0520C
IUPAC 4-10 5.0 ng/mL
5/21/2015 1:26:42 AM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
GC30_410_1X_052015
GC30-453-8 [m]

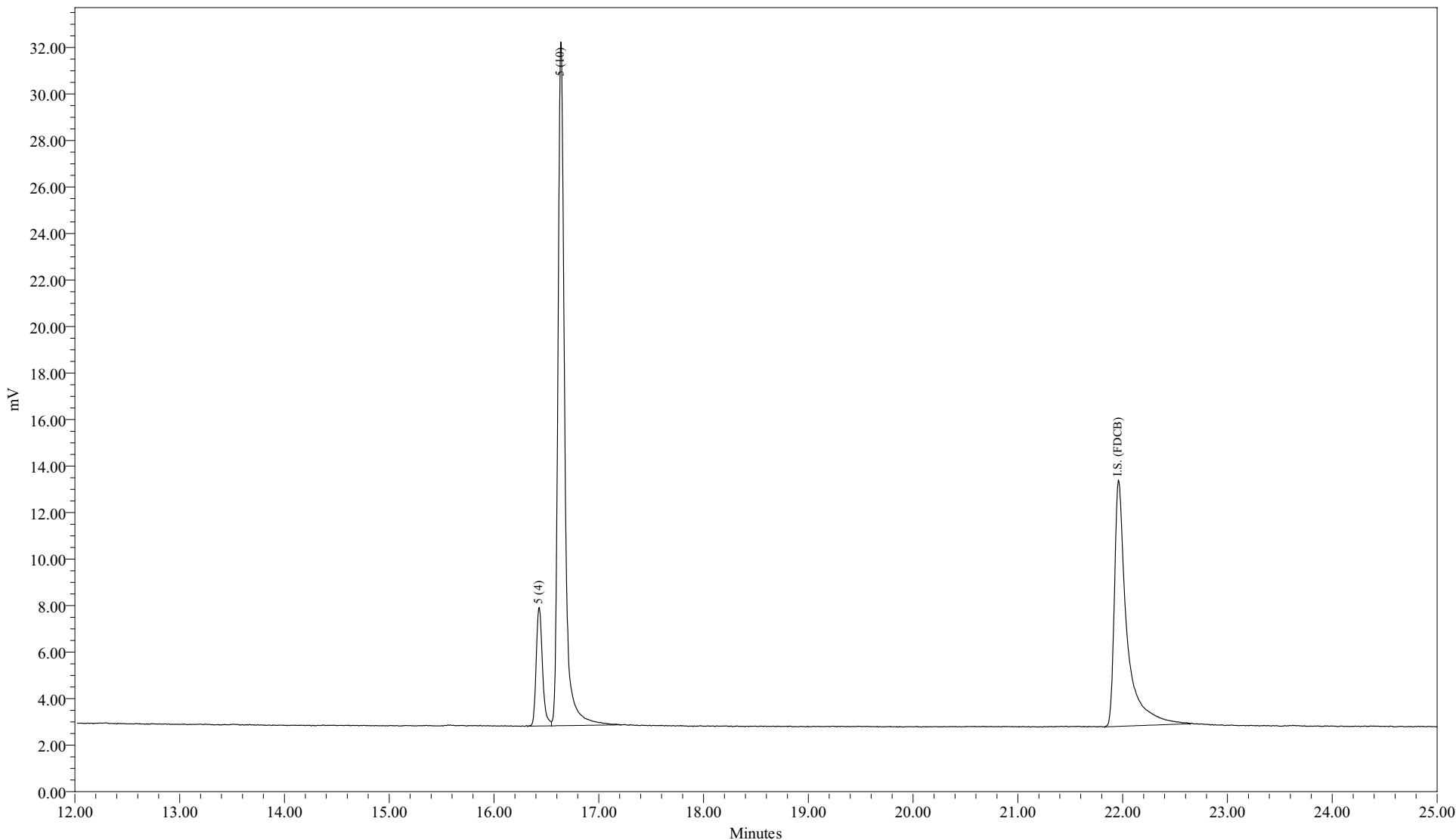
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Sample Name:	ICBZ0520C	Sample Amount:	1
Sample ID:	IUPAC 4-10 5.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 1:26:42 AM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:43:50 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:22 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC30-453-8 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	5 (4)	16.434	4279	5.000	5.000	0.180018
2	5 (10)	16.643	28664	5.000	5.000	1.205850
3	I.S. (FDCB)	21.964	86430	18.180	18.180	4754.105536

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Sample Name:	ICBZ0520D	Sample Amount:	1
Sample ID:	IUPAC 4-10 25.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 2:13:57 AM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30-453-9 [m]

Sample Name: ICBZ0520D

1 of 1

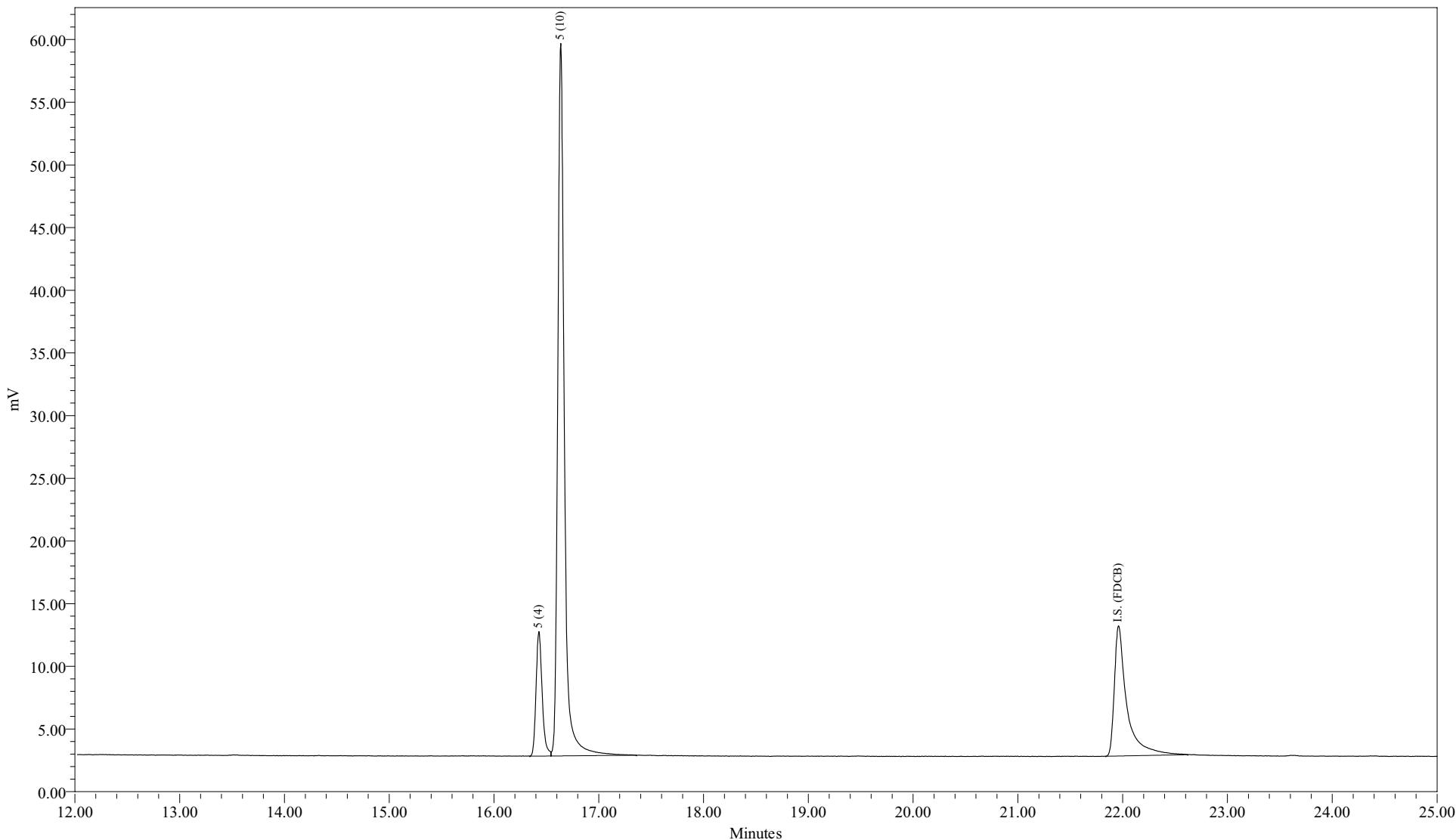
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Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	ICBZ0520D	Sample Amount:	1
Sample ID:	IUPAC 4-10 25.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 2:13:57 AM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:43:51 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:22 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC30-453-9 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	5 (4)	16.431	21184	25.000	25.000	0.176518
2	5 (10)	16.639	131715	25.000	25.000	1.097524
3	I.S. (FDCB)	21.960	87272	18.180	18.180	4800.425972

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Sample Name:	ICBZ0520E	Sample Amount:	1
Sample ID:	IUPAC 4-10 50.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 3:01:06 AM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30-453-10 [m]

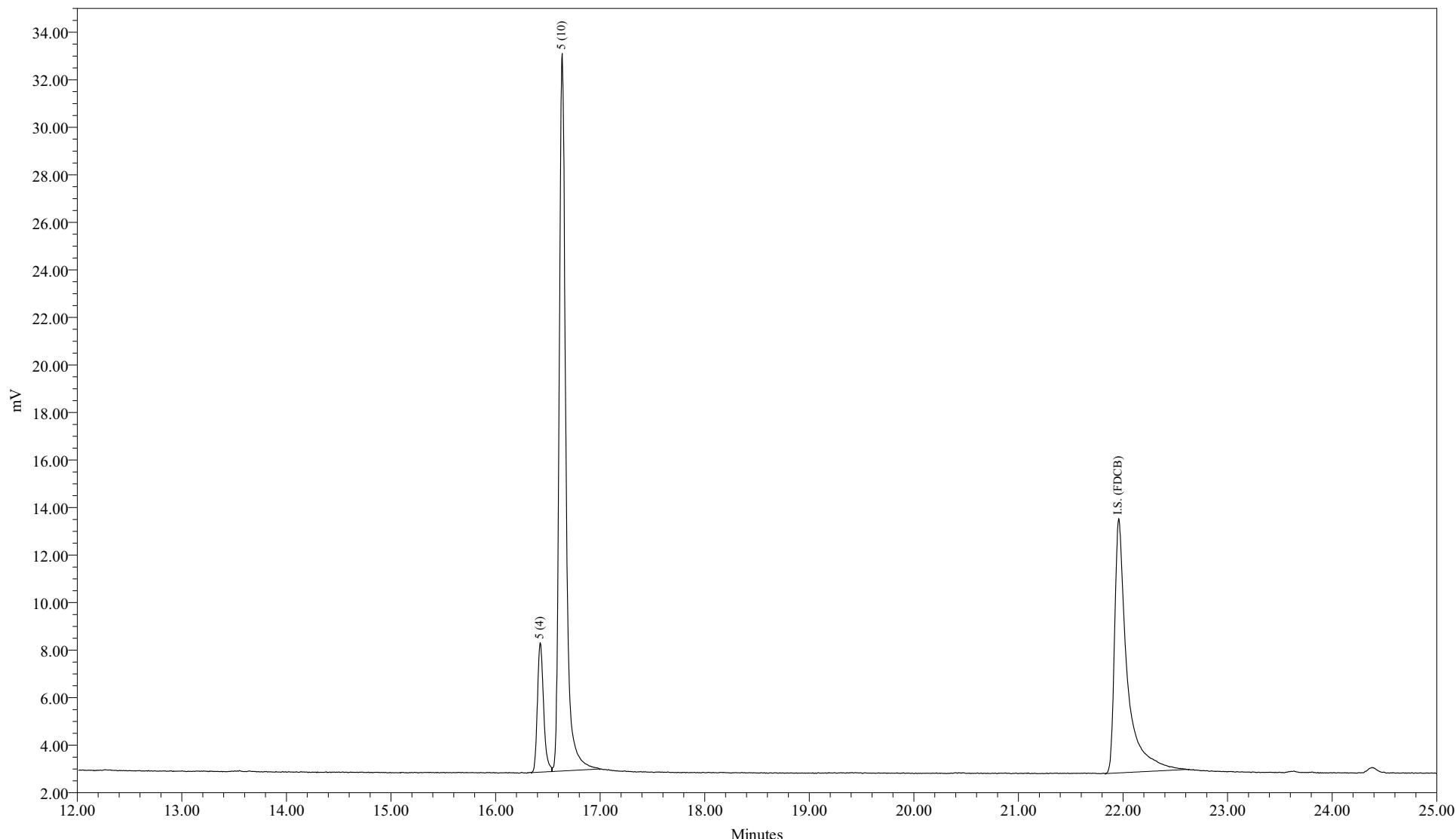
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Sample Name:	ICBZ0520E	Sample Amount:	1
Sample ID:	IUPAC 4-10 50.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 3:01:06 AM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:43:53 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:22 PM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC30-453-10 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	5 (4)	16.428	40167	50.000	50.000	0.170303
2	5 (10)	16.637	247706	50.000	50.000	1.050231
3	I.S. (FDCB)	21.961	85758	18.180	18.180	4717.163157

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Sample Name:	CCCS0520AA	Sample Amount :	1.0000
Sample ID:	CCCS_Std 25.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 4:35:25 AM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30_453-12 [m]

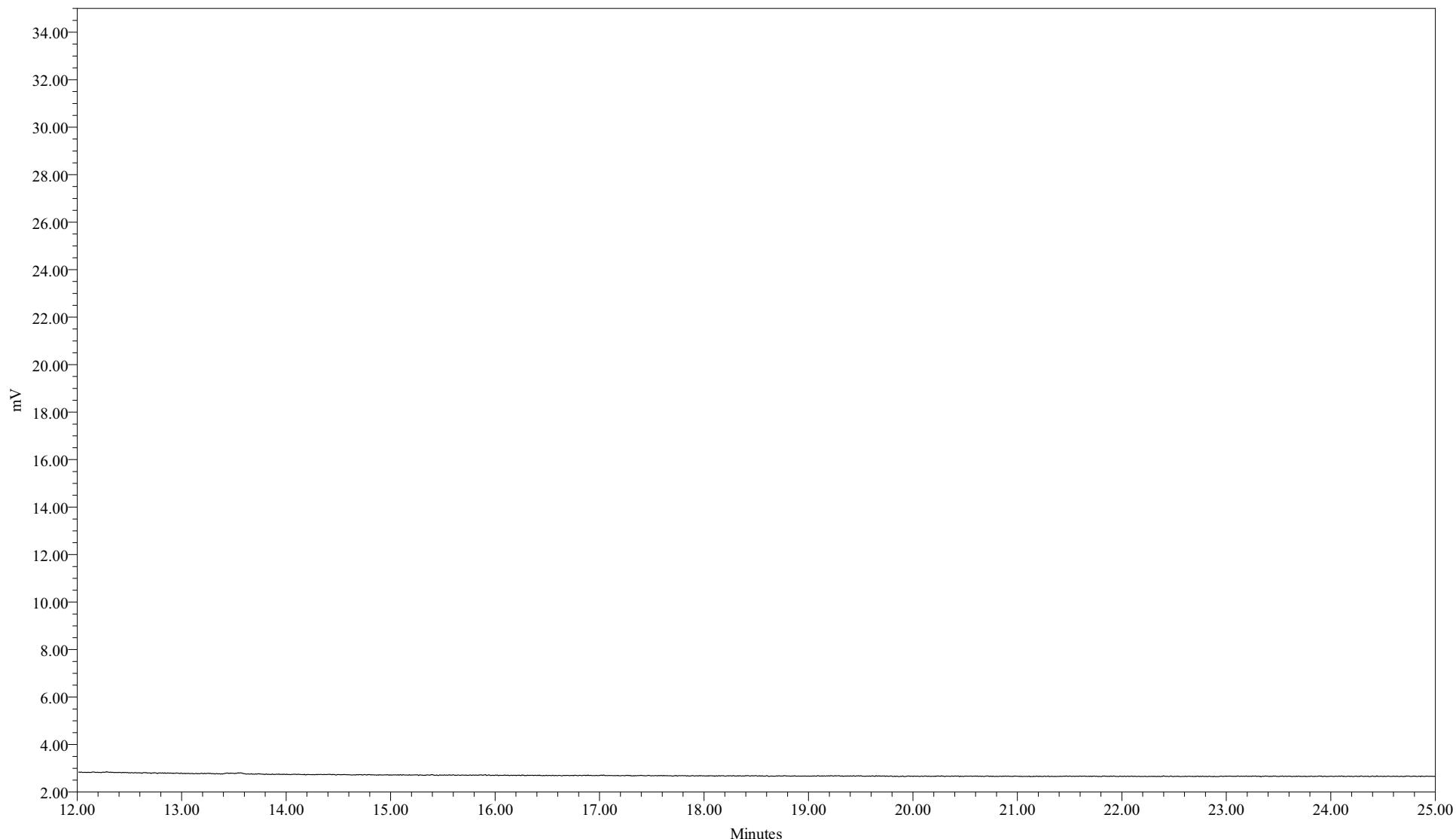
Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308
Phone: (518) 346-4592 Fax: (518) 381-6055
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Sample Name:	CCCS0520AA	Sample Amount:	1
Sample ID:	CCCS Std 25.0 ng/mL	Dilution:	1
Date Acquired:	5/21/2015 4:35:25 AM EDT	Extract Volume:	1
Project Name:	GC30_Jan_2015	Date Processed:	5/21/2015 4:45:05 PM EDT
Sample Set Name:	GC30_CC_052015	User Name:	Amie Hamilton (AmieH)
Processing Method:	GC30_410_1X_052015	Current Date:	5/21/2015
Run Time:	38.0 Minutes	Current Time:	4:59:29 PM US/Eastern
Report Name:	CSGB_ChkStd_rpt_ng_mL	LIMS File ID:	GC30-453-12 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ng/mL
1	5 (4)	16.427	22174	26.207	26.207
2	5 (10)	16.637	133491	25.375	25.375
Sum					51.58

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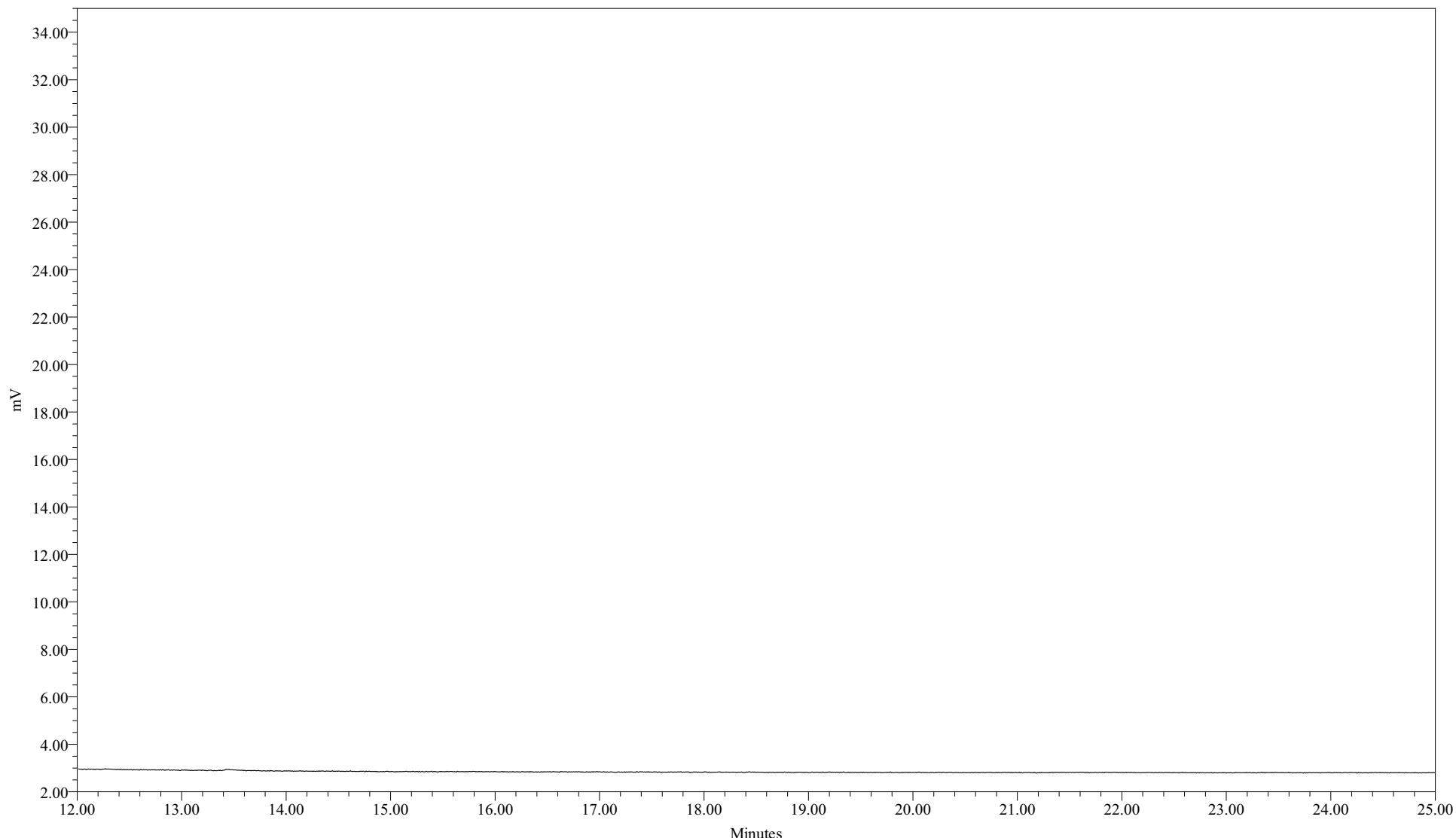


Sample Name:	150520B05	Sample Amount :	1.0000
Sample ID:	HEXANE BLANK	Dilution:	1
Date Acquired:	5/20/2015 11:04:57 PM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30-453-5 [A]

Sample Name: 150520B05

1 of 1

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Sample Name:	150520B06	Sample Amount :	1.0000
Sample ID:	HEXANE BLANK	Dilution:	1
Date Acquired:	5/21/2015 3:48:18 AM EDT	Processing Method:	GC30_410_1X_052015
		LIMS File ID:	GC30-453-11 [A]

Sample Name: 150520B06

1 of 1

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Pace Analytical Services, Inc. SGD NO: 15080496
ELAP ID No: 11078
INSTRUMENT ID: GC30
GC COLUMN: Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm

Continuing Calibration Standard CCCS0824AB

Lab File ID:	<u>GC30-483-6</u>	Known Amount:	<u>50 ng/ml</u>
Date:	<u>08/24/2015</u>	Calculated Amount:	<u>52.3 ng/ml</u>
Time:	<u>12:14:19</u>	FDCB (I.S.) Peak Area:	<u>86495</u>
		% Recovery of I.S. (50 - 150 %):	<u>101</u>

Continuing Calibration Standard CCCS0824AC

Lab File ID:	<u>GC30-483-16</u>	Known Amount:	<u>50 ng/ml</u>
Date:	<u>08/24/2015</u>	Calculated Amount:	<u>53.1 ng/ml</u>
Time:	<u>21:12:47</u>	FDCB (I.S.) Peak Area:	<u>85417</u>
		% Recovery of I.S. (50 - 150 %):	<u>99.4</u>

Lab File ID:	<u> </u>	Known Amount:	<u> </u>
Date:	<u> </u>	Calculated Amount:	<u> </u>
Time:	<u> </u>	FDCB (I.S.) Peak Area:	<u> </u>
		% Recovery of I.S. (50 - 150 %):	<u> </u>

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Pace Analytical Services, Inc. SGD NO: 15080496
ELAP ID No: 11078
INSTRUMENT ID: GC30
GC COLUMN: Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm

Continuing Calibration Standard CCCS0822AA

Lab File ID:	<u>GC30-482-4</u>	Known Amount:	<u>50 ng/ml</u>
Date:	<u>08/22/2015</u>	Calculated Amount:	<u>53.5 ng/ml</u>
Time:	<u>18:46:21</u>	FDCB (I.S.) Peak Area:	<u>76784</u>
		% Recovery of I.S. (50 - 150 %):	<u>89.3</u>

Continuing Calibration Standard CCCS0822AB

Lab File ID:	<u>GC30-482-14</u>	Known Amount:	<u>50 ng/ml</u>
Date:	<u>08/23/2015</u>	Calculated Amount:	<u>53.4 ng/ml</u>
Time:	<u>02:39:59</u>	FDCB (I.S.) Peak Area:	<u>78478</u>
		% Recovery of I.S. (50 - 150 %):	<u>91.3</u>

Continuing Calibration Standard CCCS0824AA

Lab File ID:	<u>GC30-483-4</u>	Known Amount:	<u>50 ng/ml</u>
Date:	<u>08/24/2015</u>	Calculated Amount:	<u>54.5 ng/ml</u>
Time:	<u>10:39:31</u>	FDCB (I.S.) Peak Area:	<u>79631</u>
		% Recovery of I.S. (50 - 150 %):	<u>92.6</u>

Pace Analytical Services, Inc.

CSGB-410 CONTINUING CALIBRATION SUMMARY

25 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0824AB File ID: GC30-483-6		Continuing Calibration CCCS0824AC File ID: GC30-483-16		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
5 (4)	25	+/-15	26.6	6.35	27.0	7.95		
5 (10)	25	+/-15	25.7	2.94	26.1	4.31		

Pace Analytical Services, Inc.

CSGB-410 CONTINUING CALIBRATION SUMMARY

25 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0822AA File ID: GC30-482-4		Continuing Calibration CCCS0822AB File ID: GC30-482-14		Continuing Calibration CCCS0824AA File ID: GC30-483-4	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
5 (4)	25	+/-15	27.3	9.14	27.2	8.63	27.9	11.4
5 (10)	25	+/-15	26.2	4.95	26.2	4.97	26.6	6.52

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822AA	CCCS0824AA File ID: GC30-483-4		CCCS0824AB File ID: GC30-483-6		CCCS0824AC File ID: GC30-483-16	
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	5 (4)	+/-0.07	16.28	16.27		16.27	
2	5 (10)	+/-0.07	16.48	16.48		16.48	

Pace Analytical Services, Inc.
PCB CONTINUING CALIBRATION SUMMARY
RETENTION TIME WINDOW VERIFICATION

Peak Number DB-1	Retention Time Window CCCS0822AA	CCCS0822AA File ID: GC30-482-4		CCCS0822AB File ID: GC30-482-14			
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	5 (4)	+/-0.07	16.29		16.28		
2	5 (10)	+/-0.07	16.49		16.49		

CALIBRATION COMPONENT SUMMARY TABLE (GC30)



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Project Name:	GC30_Jan_2015	Current Time:	15:33:27
Sample Set Name:	GC30_CC_052015	Current Date:	9/24/2015
Processing Method:	GC30_410_1X_052015	Calibration ID:	1962
Run Time:	38 Minutes	Calibration Date(s):	05/20/2015,05/21/2015

Correlation Summary

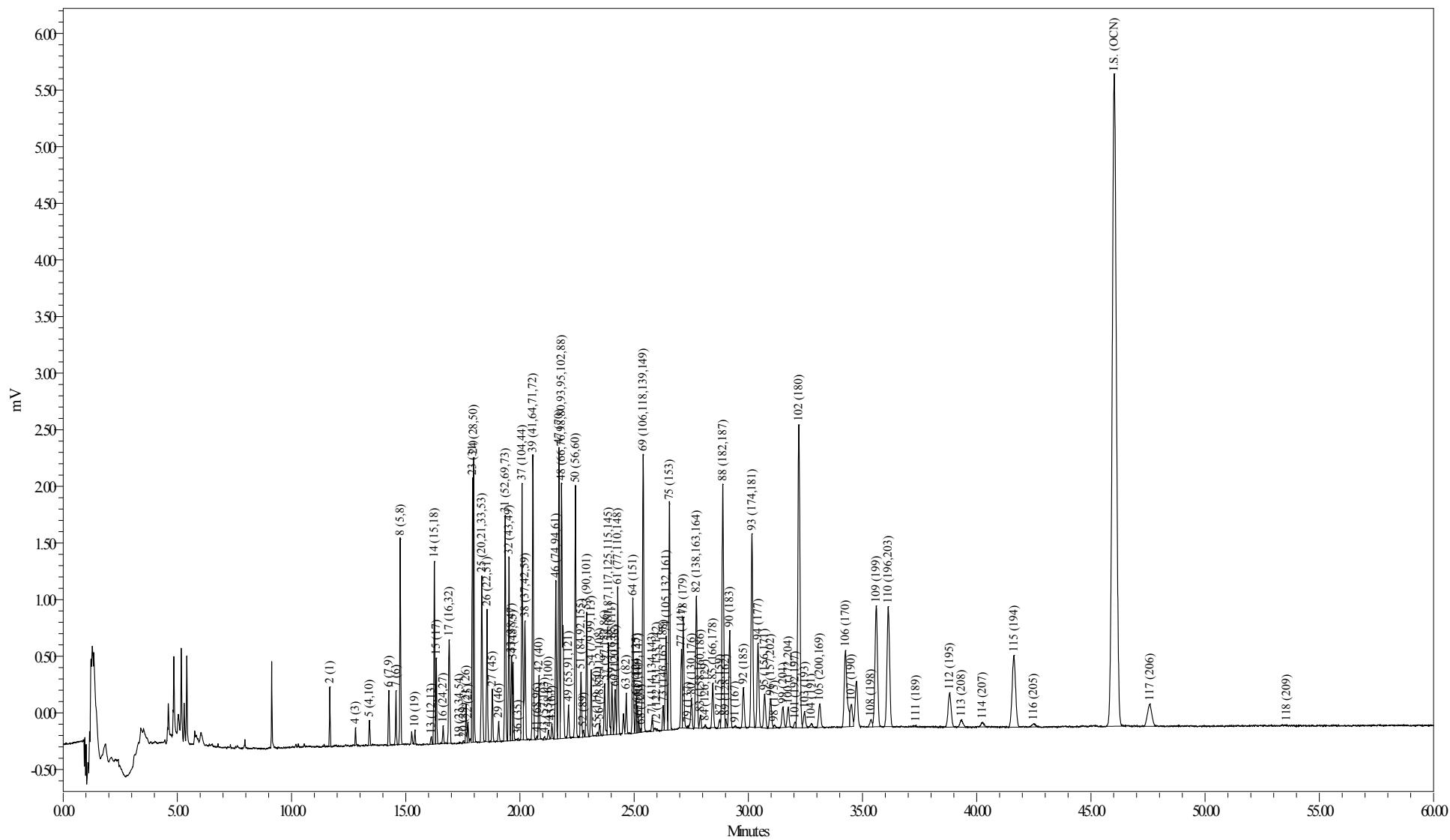
	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	5 (4)	0.999806	$Y = 1.73e-001 X + 2.32e-003$	0.00232118089548017	0.172780950242607
2	5 (10)	0.999324	$Y = 1.07e+000 X + 3.67e-002$	0.0366650304794511	1.07335470784911
3	I.S. (FDCB)	1.000000	$Y = 4.73e+003 X$	0	4729.0779217708

STANDARDS RAW DATA (GC24)

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Sample Name:
Sample ID:
Date Acquired:

CCCS0822A
CCC Std 122 ng/mL
8/22/2015 7:37:57 PM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LLIX 073115
GC24-12194 [m]

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 19:37:57
 Lab Sample ID: CCCS0822A
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 125 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.35	15.53	A1221	2/001	8.3047	38.9	31.9
Di	12.14	15.33	A1242	23+24/31+28	6.1869	29.0	23.8
Tri	17.40	19.12	A1254SED	61/100	1.6175	7.58	
Tetra	21.91	21.31	A1254BIO	69+75+82/149+153+138	6.2847		24.2
Penta	8.65	7.46	A1260	102/180	4.0583	19.0	15.6
Hexa	7.63	6.04	A1268	115/194	1.1591	5.43	4.46
Hepta	13.68	9.81					
Octa	7.54	4.97					
Nona	0.69	0.42					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.61

Meta + Para Cl / biphenyl Residue = 2.14

Total Cl / biphenyl Residue = 3.75

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/22/2015 19:37:57

Lab Sample ID: CCCS0822A

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1219-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	966	8.30	44.0			
3	12.70	188.7		-	-			
4	12.80	188.7	315	4.62	24.5			
5	13.41	223.1	645	2.34	10.5			
6	14.26	223.1	1417	0.767	3.44			
7	14.57	223.1	1124	1.22	5.49			
8	14.76	223.1	4734	9.88	44.3			
9	15.31	223.1		-	-			
10	15.40	257.5	289	0.204	0.793			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.12	223.1	235	0.192	0.860			
14	16.25	249.0	4776	3.03	12.2			
15	16.34	257.5	2016	2.78	10.8			
16	16.64	257.5	435	0.201	0.780			
17	16.90	257.5	3835	3.00	11.6			
19	17.34	267.9	19	0.0124	0.0463			
20	17.53	257.5	57	0.0340	0.132			
21	17.64	257.5	957	0.577	2.24			
22	17.73	257.5	502	0.244	0.946			
23	17.92	257.5	6332	3.03	11.8			
24	17.97	257.5	7152	3.16	12.3			
25	18.33	259.5	5312	3.02	11.6			
26	18.56	258.7	3413	2.09	8.08			
27	18.79	292.0	1382	0.755	2.58			
28	18.92	257.5		-	-			
29	19.07	292.0	549	0.341	1.17			
30	19.18	257.5		-	-			
31	19.35	292.0	6116	4.19	14.3			
32	19.52	292.0	4985	1.74	5.96			
33	19.63	292.0	2277	0.536	1.84			
34	19.70	292.0	2120	0.765	2.62			
35	19.84	292.0		-	-			
36	19.92	257.5	46	0.0406	0.158			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7278	3.34	11.4			
38	20.22	272.4	4010	2.30	8.43			
39	20.57	292.0	8002	2.89	9.90			
41	20.75	326.4	96	0.0560	0.172			
42	20.83	292.0	1753	0.786	2.69			
43	21.08	298.9	99	0.0426	0.143			
44	21.25	298.9	283	0.0930	0.311			
45	21.40	292.0	428	0.142	0.486			
46	21.57	292.0	4342	1.05	3.60			
47	21.71	292.0	8144	2.46	8.43			
48	21.82	293.5	10699	4.86	16.5			
49	22.13	324.7	998	0.429	1.32			
50	22.43	292.0	7164	2.36	8.07			
51	22.67	326.4	2099	1.70	5.20			
52	22.78	326.4	201	0.102	0.311			
53	22.92	326.4	3685	1.32	4.05			
54	23.12	326.4	1923	0.454	1.39			
55	23.39	326.4	115	0.0204	0.0626			
56	23.50	326.4	360	0.165	0.504			
57	23.71	326.4	1625	0.470	1.44			
58	23.88	326.4	2843	0.945	2.89			
59	24.03	326.4	1526	0.422	1.29			
60	24.17	360.9	1525	0.505	1.40			
61	24.28	326.4	4295	1.62	4.96			
62	24.56	360.9	-	-	-			
63	24.66	326.4	1200	0.371	1.14			
64	24.95	360.9	3969	1.34	3.72			
65	25.09	350.5	1052	0.202	0.576			
66	25.14	360.9	758	0.476	1.32			
67	25.18	336.8	277	0.101	0.299			
68	25.29	326.4	89	0.0302	0.0925			
69	25.40	337.5	9253	2.84	8.40			
70	25.51	360.9	-	-	-			
71	25.79	347.8	453	0.156	0.449			
72	25.99	336.8	64	0.0151	0.0450			
73	26.27	360.9	795	0.235	0.650			
74	26.40	347.8	3944	0.910	2.62			
75	26.54	360.9	7611	1.89	5.24			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2610	1.10	3.05			
78	27.15	395.3	4029	1.35	3.41			
79	27.35	360.9	69	0.0530	0.147			
80	27.51	360.9	1231	0.204	0.564			
82	27.72	360.9	5765	1.56	4.32			
83	27.91	360.9	494	0.131	0.362			
84	28.11	360.9	89	0.00708	0.0196			
85	28.44	395.3	1712	0.883	2.23			
87	28.75	395.3	327	0.181	0.459			
88	28.88	395.3	10466	2.89	7.30			
89	29.00	360.9	281	0.0550	0.152			
90	29.18	395.3	4173	1.21	3.06			
91	29.42	360.9	74	0.0219	0.0606			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.79	394.3	1812	0.370	0.937			
93	30.16	394.3	9043	2.58	6.55			
94	30.42	394.3	3982	1.30	3.30			
95	30.71	382.2	1716	0.544	1.42			
96	30.98	429.8	1532	0.0660	0.154			
98	31.13	395.3	159	0.0407	0.103			
99	31.52	429.8	1092	0.372	0.866			
100	31.75	395.3	1024	0.361	0.913			
101	32.05	429.8	253	0.108	0.252			
102	32.21	395.3	16860	4.06	10.3			
103	32.46	395.3	881	0.292	0.738			
104	32.75	395.3	205	0.0715	0.181			
105	33.12	429.8	1414	0.421	0.979			
106	34.25	395.3	5892	0.873	2.21			
107	34.51	395.3	1379	0.257	0.649			
108	35.36	429.8	438	0.108	0.252			
109	35.60	429.8	8354	3.50	8.15			
110	36.13	429.8	8471	3.20	7.45			
111	37.34	395.3	74	0.0205	0.0518			
112	38.82	429.8	2780	0.404	0.940			
113	39.33	464.2	594	0.282	0.608			
114	40.24	464.2	361	0.0810	0.174			
115	41.63	429.8	6661	1.16	2.70			
116	42.49	429.8	309	0.0716	0.167			
117	47.58	464.2	2578	0.497	1.07			
118	53.57	498.6	12	0.00184	0.00369			

Total Concentration = 125 ng/mL

Total Nanomoles = 0.441

Average Molecular Weight = 283.2

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.02 minutes

OCN Internal Standard Peak Area = 73060.5

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 19:37:57
 Lab Sample ID: CCCS0822A
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2538	2	6.652	9.984
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.698	5.551
5	13.41	2:2	004 010	0.2914	2-2; 26	1.878	2.384
6	14.26	2:1	007 009	0.3099	24; 25	0.614	0.780
7	14.57	2:1	006	0.3166	2-3	0.981	1.245
8	14.76	2:1	005 008	0.3207	23; 2-4	7.912	10.043
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.164	0.180
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.12	2:0	012 013	0.3503	34; 3-4	0.154	0.195
14	16.25	2:0 3:2	015 018	0.3531	4-4; 25-2	2.425	2.758
15	16.34	3:2	017	0.3551	24-2	2.225	2.447
16	16.64	3:2	024 027	0.3616	236; 26-3	0.161	0.177
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.402	2.642
19	17.34	3:1 4:4	023 034 054	0.3768	235; 35-2; 26-26	0.010	0.011
20	17.53	3:1	029	0.3809	245	0.027	0.030
21	17.64	3:1	026	0.3833	25-3	0.462	0.508
22	17.73	3:1	025	0.3853	24-3	0.195	0.215
23	17.92	3:1	031	0.3894	25-4	2.426	2.668
24	17.97	3:1 4:3	028 050	0.3905	24-4; 246-2	2.530	2.783
25	18.33	3:1 4:3	020 021 033 053	0.3983	23-3; 234; 34-2; 25-26	2.418	2.639
26	18.56	3:1 4:3	022 051	0.4033	23-4; 24-26	1.675	1.834
27	18.79	4:3	045	0.4083	236-2	0.604	0.586
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4144	23-26	0.273	0.265
30	19.18	3:0	039		35-4	-	-
31	19.35	4:2	052 069 073	0.4205	25-25; 246-3; 26-35	3.356	3.255
32	19.52	4:2	043 049	0.4242	235-2; 24-25	1.394	1.352
33	19.63	4:2	038 047	0.4266	345; 24-24	0.429	0.416
34	19.70	4:2	048 075	0.4281	245-2; 246-4	0.613	0.594
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035	0.4329	34-3	0.032	0.036
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.675	2.595
38	20.22	3:0 4:2	037 042 059	0.4394	34-4; 23-24; 236-3	1.839	1.912
39	20.57	4:2	041 064 071 072	0.4470	234-2; 236-4; 26-34; 25-35	2.315	2.246

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.75	5:4	068 096	0.4509	24-35; 236-26	0.045	0.039
42	20.83	4:2	040	0.4526	23-23	0.629	0.610
43	21.08	4:1 5:3	057 103	0.4581	235-3; 246-25	0.034	0.032
44	21.25	4:1 5:3	058 067 100	0.4618	23-35; 245-3; 246-24	0.075	0.071
45	21.40	4:1	063	0.4650	235-4	0.114	0.110
46	21.57	4:1 5:3	074 094 061	0.4687	245-4; 235-26; 2345	0.842	0.817
47	21.71	4:1	070	0.4718	25-34	1.973	1.914
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4741	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.891	3.754
49	22.13	4:1 5:3	055 091 121	0.4809	234-3; 236-24; 246-35	0.344	0.300
50	22.43	4:1	056 060	0.4874	23-34; 234-4	1.888	1.831
51	22.67	5:3 6:4	084 092 155	0.4926	236-23; 235-25; 246-246	1.359	1.179
52	22.78	5:3	089	0.4950	234-26	0.081	0.071
53	22.92	5:2	090 101	0.4980	235-24; 245-25	1.060	0.919
54	23.12	5:2	079 099 113	0.5024	34-35; 245-24; 236-35	0.364	0.316
55	23.39	5:2 6:4	119 150	0.5083	246-34; 236-246	0.016	0.014
56	23.50	5:2	078 083 112 108	0.5106	345-3; 235-23; 2356-3; 2346-3	0.132	0.114
57	23.71	5:2 6:4	097 152 086	0.5152	245-23; 2356-26; 2345-2	0.377	0.327
58	23.88	5:2	081 087 117 125 115 145	0.5189	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.757	0.657
59	24.03	5:2	116 085 111	0.5222	23456; 234-24; 235-35	0.338	0.293
60	24.17	6:4	120 136	0.5252	245-35; 236-236	0.405	0.318
61	24.28	5:2	077 110 148	0.5276	34-34; 236-34; 235-246	1.296	1.124
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5359	234-23	0.297	0.258
64	24.95	6:3	151	0.5422	2356-25	1.075	0.843
65	25.09	5:1 6:3	124 135	0.5452	345-25; 235-236	0.162	0.131
66	25.14	6:3	144	0.5463	2346-25	0.382	0.300
67	25.18	5:1 6:3	107 109 147	0.5472	234-35; 235-34; 2356-24	0.081	0.068
68	25.29	5:1	123	0.5495	345-24	0.024	0.021
69	25.40	5:1 6:3	106 118 139 149	0.5519	2345-3; 245-34; 2346-24; 236-245	2.272	1.907
70	25.51	6:3	140		234-246	-	-
71	25.79	5:1 6:3	114 134 143	0.5604	2345-4; 2356-23; 2345-26	0.125	0.102
72	25.99	5:1 6:3	122 131 133 142	0.5648	345-23; 2346-23; 235-235; 23456-2	0.012	0.010
73	26.27	6:2	146 165 188	0.5708	235-245; 2356-35; 2356-246	0.188	0.147
74	26.40	5:1 6:3	105 132 161	0.5737	234-34; 234-236; 2346-35	0.729	0.593
75	26.54	6:2	153	0.5767	245-245	1.514	1.188
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5882	2345-25	0.883	0.693
78	27.15	7:4	179	0.5900	2356-236	1.080	0.774
79	27.35	6:2	137	0.5943	2345-24	0.042	0.033
80	27.51	6:2 7:4	130 176	0.5978	234-235; 2346-236	0.163	0.128
82	27.72	6:2	138 163 164	0.6023	234-245; 2356-34; 236-345	1.249	0.980
83	27.91	6:2	158 160 186	0.6065	2346-34; 23456-3; 23456-26	0.105	0.082
84	28.11	6:2	126 129	0.6108	345-34; 2345-23	0.006	0.004
85	28.44	7:3	166 178	0.6180	23456-4; 2356-235	0.707	0.507
87	28.75	7:3	175 159	0.6247	2346-235; 2345-35	0.145	0.104
88	28.88	7:3	182 187	0.6276	2345-246; 2356-245	2.312	1.657
89	29.00	6:2	128 162	0.6302	234-234; 235-345	0.044	0.035
90	29.18	7:3	183	0.6341	2346-245	0.968	0.694
91	29.42	6:1	167	0.6393	245-345	0.018	0.014
92	29.79	7:3	185	0.6473	23456-25	0.296	0.213
93	30.16	7:3	174 181	0.6554	2345-236; 23456-24	2.070	1.487
94	30.42	7:3	177	0.6610	2356-234	1.041	0.748
95	30.71	6:1 7:3	156 171	0.6673	2345-34; 2346-234	0.436	0.323
96	30.98	8:4	157 202	0.6732	234-345; 2356-2356	0.053	0.035
98	31.13	7:3	173	0.6764	23456-23	0.033	0.023
99	31.52	8:4	201	0.6849	2346-2356	0.298	0.197
100	31.75	7:2	172 204	0.6899	2345-235; 23456-246	0.289	0.207
101	32.05	8:4	192 197	0.6964	23456-35; 2346-2346	0.087	0.057
102	32.21	7:2	180	0.6999	2345-245	3.251	2.329
103	32.46	7:2	193	0.7053	2356-345	0.234	0.167
104	32.75	7:2	191	0.7116	2346-345	0.057	0.041
105	33.12	8:4	200 169	0.7197	23456-236; 345-345	0.337	0.222
106	34.25	7:2	170	0.7442	2345-234	0.699	0.501

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.51	7:2	190	0.7499	23456-34	0.206	0.147
108	35.36	8:3	198	0.7684	23456-235	0.087	0.057
109	35.60	8:3	199	0.7736	2345-2356	2.805	1.848
110	36.13	8:3	196 203	0.7851	2345-2346; 23456-245	2.565	1.690
111	37.34	7:1	189	0.8114	2345-345	0.016	0.012
112	38.82	8:3	195	0.8435	23456-234	0.323	0.213
113	39.33	9:4	208	0.8546	23456-2356	0.226	0.138
114	40.24	9:4	207	0.8744	23456-2346	0.065	0.040
115	41.63	8:2	194	0.9046	2345-2345	0.928	0.612
116	42.49	8:2	205	0.9233	23456-345	0.057	0.038
117	47.58	9:3	206	1.034	23456-2345	0.398	0.243
118	53.57	10:4	209	1.164	23456-23456	0.001	0.001

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 125 ng/mL

Total Nanomoles = 0.441

Average Molecular Weight = 283.2

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

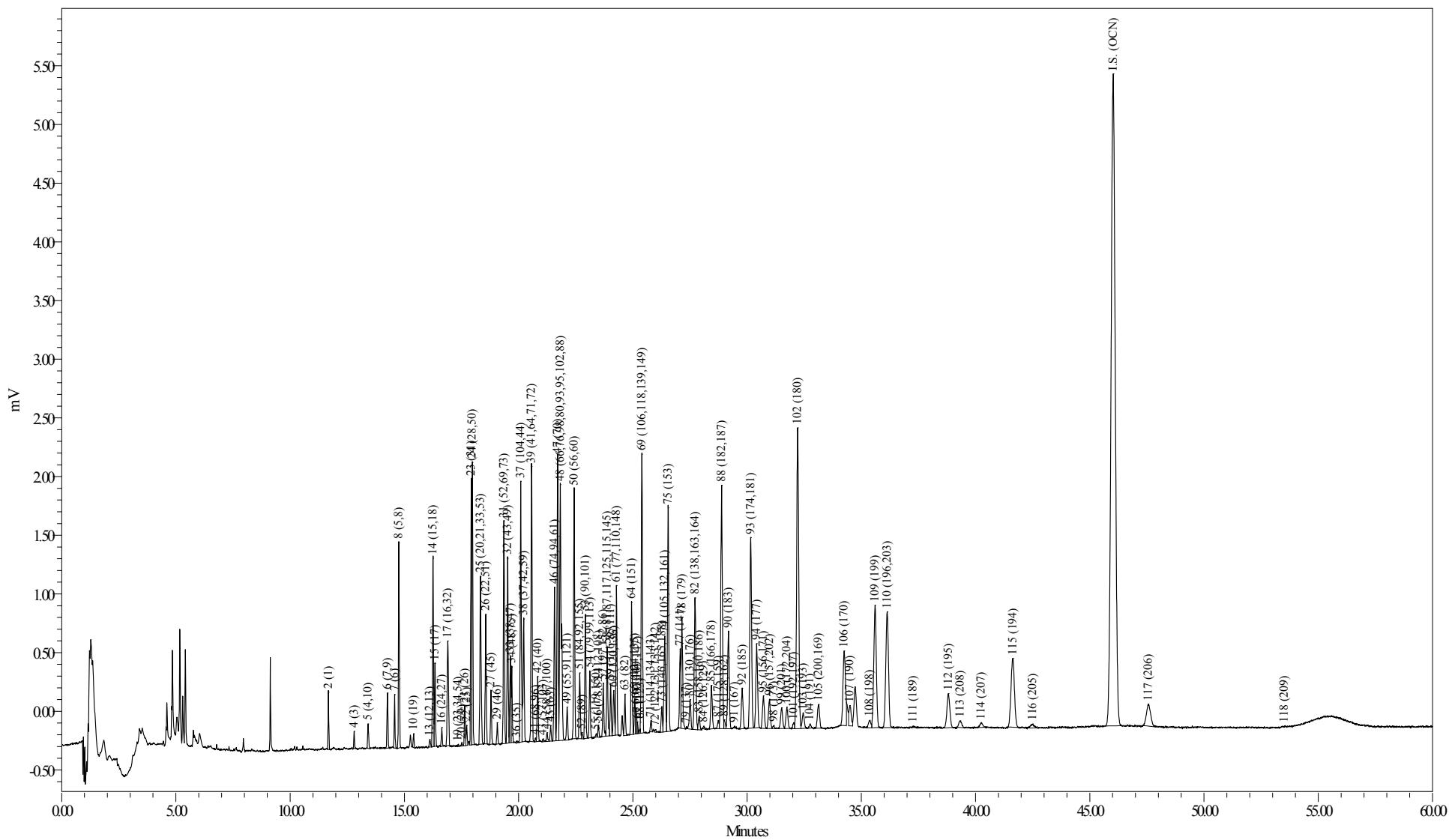
⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Name:
Sample ID:
Date Acquired:

CCCS0822B
CCC Std 122 ng/mL
8/23/2015 6:33:41 AM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LLIX 073115
GC24-1219-14 [m]

Pace Analytical Services, Inc.
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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 06:33:41
 Lab Sample ID: CCCS0822B
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 124 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.55	15.81	A1221	2/001	8.3905	39.4	32.3
Di	12.16	15.32	A1242	23+24/31+28	6.1803	29.0	23.8
Tri	17.43	19.12	A1254SED	61/100	1.5909	7.47	
Tetra	21.97	21.32	A1254BIO	69+75+82/149+153+138	6.2985		24.2
Penta	8.56	7.37	A1260	102/180	4.0224	18.9	15.5
Hexa	7.58	5.99	A1268	115/194	1.1096	5.21	4.27
Hepta	13.58	9.72					
Octa	7.52	4.95					
Nona	0.65	0.39					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.60

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.73

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/23/2015 06:33:41

Lab Sample ID: CCCS0822B

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1219-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	942	8.39	44.5			
3	12.70	188.7		-	-			
4	12.80	188.7	313	4.75	25.1			
5	13.41	223.1	634	2.39	10.7			
6	14.26	223.1	1351	0.758	3.40			
7	14.57	223.1	1097	1.24	5.55			
8	14.76	223.1	4533	9.81	44.0			
9	15.31	223.1		-	-			
10	15.40	257.5	306	0.224	0.872			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.11	223.1	225	0.190	0.852			
14	16.25	249.0	4589	3.02	12.1			
15	16.34	257.5	1945	2.78	10.8			
16	16.64	257.5	420	0.201	0.779			
17	16.90	257.5	3669	2.97	11.6			
19	17.35	267.9	55	0.0371	0.138			
20	17.51	257.5	81	0.0509	0.198			
21	17.64	257.5	937	0.585	2.27			
22	17.73	257.5	471	0.237	0.921			
23	17.93	257.5	6260	3.10	12.1			
24	17.97	257.5	6719	3.08	11.9			
25	18.33	259.5	5107	3.01	11.6			
26	18.56	258.7	3264	2.07	8.01			
27	18.79	292.0	1342	0.760	2.60			
28	18.92	257.5		-	-			
29	19.07	292.0	513	0.331	1.13			
30	19.18	257.5		-	-			
31	19.36	292.0	5941	4.22	14.5			
32	19.52	292.0	4824	1.75	5.98			
33	19.64	292.0	2180	0.532	1.82			
34	19.70	292.0	2010	0.752	2.58			
35	19.84	292.0		-	-			
36	19.92	257.5	52	0.0472	0.183			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7111	3.38	11.6			
38	20.22	272.4	3800	2.26	8.28			
39	20.57	292.0	7726	2.89	9.91			
41	20.74	326.4	92	0.0557	0.171			
42	20.84	292.0	1703	0.792	2.71			
43	21.07	298.9	63	0.0282	0.0943			
44	21.25	298.9	275	0.0939	0.314			
45	21.40	292.0	415	0.143	0.488			
46	21.57	292.0	4174	1.05	3.59			
47	21.71	292.0	7864	2.47	8.45			
48	21.82	293.5	10272	4.83	16.5			
49	22.12	324.7	967	0.431	1.33			
50	22.43	292.0	6805	2.32	7.95			
51	22.68	326.4	1975	1.65	5.07			
52	22.77	326.4	172	0.0901	0.276			
53	22.92	326.4	3543	1.32	4.04			
54	23.12	326.4	1852	0.454	1.39			
55	23.40	326.4	87	0.0160	0.0491			
56	23.49	326.4	321	0.152	0.465			
57	23.71	326.4	1559	0.468	1.43			
58	23.88	326.4	2696	0.929	2.85			
59	24.03	326.4	1442	0.414	1.27			
60	24.16	360.9	1420	0.488	1.35			
61	24.28	326.4	4074	1.59	4.87			
62	24.56	360.9	-	-	-			
63	24.66	326.4	1179	0.378	1.16			
64	24.95	360.9	3819	1.34	3.71			
65	25.08	350.5	1066	0.212	0.605			
66	25.14	360.9	693	0.451	1.25			
67	25.20	336.8	223	0.0838	0.249			
68	25.33	326.4	101	0.0355	0.109			
69	25.39	337.5	8868	2.82	8.35			
70	25.51	360.9	-	-	-			
71	25.79	347.8	371	0.132	0.381			
72	25.99	336.8	84	0.0205	0.0609			
73	26.27	360.9	802	0.246	0.680			
74	26.40	347.8	3804	0.910	2.62			
75	26.54	360.9	7403	1.91	5.28			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2412	1.06	2.93			
78	27.15	395.3	4010	1.39	3.52			
79	27.35	360.9	29	0.0233	0.0647			
80	27.51	360.9	1143	0.196	0.543			
82	27.72	360.9	5614	1.57	4.36			
83	27.90	360.9	518	0.142	0.393			
84	28.10	360.9	83	0.00683	0.0189			
85	28.44	395.3	1692	0.904	2.29			
87	28.73	395.3	289	0.167	0.422			
88	28.88	395.3	10053	2.87	7.27			
89	29.01	360.9	310	0.0631	0.175			
90	29.18	395.3	4087	1.23	3.11			
91	29.45	360.9	59	0.0180	0.0499			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.79	394.3	1774	0.375	0.952			
93	30.16	394.3	8741	2.59	6.57			
94	30.42	394.3	3761	1.27	3.23			
95	30.71	382.2	1583	0.520	1.36			
96	30.98	429.8	1431	0.0639	0.149			
98	31.17	395.3	121	0.0319	0.0808			
99	31.51	429.8	1045	0.369	0.859			
100	31.74	395.3	1062	0.388	0.982			
101	32.04	429.8	247	0.109	0.254			
102	32.21	395.3	16117	4.02	10.2			
103	32.45	395.3	839	0.288	0.729			
104	32.75	395.3	176	0.0635	0.161			
105	33.13	429.8	1332	0.411	0.957			
106	34.25	395.3	4831	0.743	1.88			
107	34.50	395.3	1161	0.224	0.566			
108	35.36	429.8	495	0.127	0.295			
109	35.60	429.8	8056	3.50	8.14			
110	36.13	429.8	8141	3.19	7.42			
111	37.27	395.3	56	0.0161	0.0408			
112	38.81	429.8	2594	0.391	0.909			
113	39.32	464.2	517	0.254	0.547			
114	40.25	464.2	338	0.0786	0.169			
115	41.63	429.8	6150	1.11	2.58			
116	42.50	429.8	375	0.0901	0.210			
117	47.56	464.2	2369	0.474	1.02			
118	53.51	498.6	11	0.00177	0.00354			

Total Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 70462.0

Pace Analytical Services, Inc.
 2190 Technology Drive
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 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 06:33:41
 Lab Sample ID: CCCS0822B
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2537	2	6.741	10.098
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.812	5.711
5	13.41	2:2	004 010	0.2913	2-2; 26	1.920	2.432
6	14.26	2:1	007 009	0.3098	24; 25	0.609	0.772
7	14.57	2:1	006	0.3165	2-3	0.996	1.262
8	14.76	2:1	005 008	0.3207	23; 2-4	7.878	9.982
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.180	0.198
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013	0.3500	34; 3-4	0.153	0.194
14	16.25	2:0 3:2	015 018	0.3530	4-4; 25-2	2.423	2.751
15	16.34	3:2	017	0.3550	24-2	2.232	2.450
16	16.64	3:2	024 027	0.3615	236; 26-3	0.161	0.177
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.390	2.624
19	17.35	3:1 4:4	023 034 054	0.3769	235; 35-2; 26-26	0.030	0.031
20	17.51	3:1	029	0.3804	245	0.041	0.045
21	17.64	3:1	026	0.3832	25-3	0.470	0.516
22	17.73	3:1	025	0.3852	24-3	0.190	0.209
23	17.93	3:1	031	0.3895	25-4	2.494	2.738
24	17.97	3:1 4:3	028 050	0.3904	24-4; 246-2	2.471	2.712
25	18.33	3:1 4:3	020 021 033 053	0.3982	23-3; 234; 34-2; 25-26	2.418	2.634
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	1.666	1.820
27	18.79	4:3	045	0.4082	236-2	0.610	0.591
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	0.266	0.257
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073	0.4206	25-25; 246-3; 26-35	3.390	3.282
32	19.52	4:2	043 049	0.4241	235-2; 24-25	1.403	1.359
33	19.64	4:2	038 047	0.4267	345; 24-24	0.427	0.414
34	19.70	4:2	048 075	0.4280	245-2; 246-4	0.604	0.585
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035	0.4328	34-3	0.038	0.042
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.719	2.632
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	1.812	1.880
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	2.325	2.251

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.74	5:4	068 096	0.4506	24-35; 236-26	0.045	0.039
42	20.84	4:2	040	0.4527	23-23	0.636	0.616
43	21.07	4:1 5:3	057 103	0.4577	235-3; 246-25	0.023	0.021
44	21.25	4:1 5:3	058 067 100	0.4617	23-35; 245-3; 246-24	0.075	0.071
45	21.40	4:1	063	0.4649	235-4	0.115	0.111
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	0.842	0.815
47	21.71	4:1	070	0.4716	25-34	1.981	1.918
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4740	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.884	3.741
49	22.12	4:1 5:3	055 091 121	0.4806	234-3; 236-24; 246-35	0.346	0.302
50	22.43	4:1	056 060	0.4873	23-34; 234-4	1.865	1.805
51	22.68	5:3 6:4	084 092 155	0.4927	236-23; 235-25; 246-246	1.329	1.151
52	22.77	5:3	089	0.4947	234-26	0.072	0.063
53	22.92	5:2	090 101	0.4979	235-24; 245-25	1.060	0.918
54	23.12	5:2	079 099 113	0.5023	34-35; 245-24; 236-35	0.365	0.316
55	23.40	5:2 6:4	119 150	0.5084	246-34; 236-246	0.013	0.011
56	23.49	5:2	078 083 112 108	0.5103	345-3; 235-23; 2356-3; 2346-3	0.122	0.106
57	23.71	5:2 6:4	097 152 086	0.5151	245-23; 2356-26; 2345-2	0.376	0.326
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.746	0.646
59	24.03	5:2	116 085 111	0.5221	23456; 234-24; 235-35	0.332	0.288
60	24.16	6:4	120 136	0.5249	245-35; 236-236	0.392	0.307
61	24.28	5:2	077 110 148	0.5275	34-34; 236-34; 235-246	1.278	1.107
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5357	234-23	0.304	0.263
64	24.95	6:3	151	0.5420	2356-25	1.075	0.842
65	25.08	5:1 6:3	124 135	0.5449	345-25; 235-236	0.170	0.137
66	25.14	6:3	144	0.5462	2346-25	0.363	0.284
67	25.20	5:1 6:3	107 109 147	0.5475	234-35; 235-34; 2356-24	0.067	0.057
68	25.33	5:1	123	0.5503	345-24	0.029	0.025
69	25.39	5:1 6:3	106 118 139 149	0.5516	2345-3; 245-34; 2346-24; 236-245	2.264	1.897
70	25.51	6:3	140		234-246	-	-
71	25.79	5:1 6:3	114 134 143	0.5603	2345-4; 2356-23; 2345-26	0.106	0.086
72	25.99	5:1 6:3	122 131 133 142	0.5646	345-23; 2346-23; 235-235; 23456-2	0.016	0.014
73	26.27	6:2	146 165 188	0.5707	235-245; 2356-35; 2356-246	0.197	0.155
74	26.40	5:1 6:3	105 132 161	0.5735	234-34; 234-236; 2346-35	0.731	0.594
75	26.54	6:2	153	0.5766	245-245	1.531	1.199
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5881	2345-25	0.848	0.664
78	27.15	7:4	179	0.5898	2356-236	1.118	0.799
79	27.35	6:2	137	0.5942	2345-24	0.019	0.015
80	27.51	6:2 7:4	130 176	0.5977	234-235; 2346-236	0.157	0.123
82	27.72	6:2	138 163 164	0.6022	234-245; 2356-34; 236-345	1.265	0.991
83	27.90	6:2	158 160 186	0.6061	2346-34; 23456-3; 23456-26	0.114	0.089
84	28.10	6:2	126 129	0.6105	345-34; 2345-23	0.005	0.004
85	28.44	7:3	166 178	0.6179	23456-4; 2356-235	0.727	0.520
87	28.73	7:3	175 159	0.6242	2346-235; 2345-35	0.134	0.096
88	28.88	7:3	182 187	0.6274	2345-246; 2356-245	2.310	1.652
89	29.01	6:2	128 162	0.6302	234-234; 235-345	0.051	0.040
90	29.18	7:3	183	0.6339	2346-245	0.986	0.705
91	29.45	6:1	167	0.6398	245-345	0.014	0.011
92	29.79	7:3	185	0.6472	23456-25	0.301	0.216
93	30.16	7:3	174 181	0.6552	2345-236; 23456-24	2.081	1.492
94	30.42	7:3	177	0.6609	2356-234	1.023	0.733
95	30.71	6:1 7:3	156 171	0.6672	2345-34; 2346-234	0.418	0.309
96	30.98	8:4	157 202	0.6730	234-345; 2356-2356	0.051	0.034
98	31.17	7:3	173	0.6772	23456-23	0.026	0.018
99	31.51	8:4	201	0.6846	2346-2356	0.297	0.195
100	31.74	7:2	172 204	0.6896	2345-235; 23456-246	0.312	0.223
101	32.04	8:4	192 197	0.6961	23456-35; 2346-2346	0.088	0.058
102	32.21	7:2	180	0.6998	2345-245	3.231	2.311
103	32.45	7:2	193	0.7050	2356-345	0.231	0.166
104	32.75	7:2	191	0.7115	2346-345	0.051	0.036
105	33.13	8:4	200 169	0.7197	23456-236; 345-345	0.330	0.217
106	34.25	7:2	170	0.7441	2345-234	0.597	0.427

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.50	7:2	190	0.7495	23456-34	0.180	0.129
108	35.36	8:3	198	0.7682	23456-235	0.102	0.067
109	35.60	8:3	199	0.7734	2345-2356	2.812	1.850
110	36.13	8:3	196 203	0.7849	2345-2346; 23456-245	2.563	1.686
111	37.27	7:1	189	0.8097	2345-345	0.013	0.009
112	38.81	8:3	195	0.8431	23456-234	0.314	0.206
113	39.32	9:4	208	0.8542	23456-2356	0.204	0.124
114	40.25	9:4	207	0.8744	23456-2346	0.063	0.038
115	41.63	8:2	194	0.9044	2345-2345	0.891	0.586
116	42.50	8:2	205	0.9233	23456-345	0.072	0.048
117	47.56	9:3	206	1.033	23456-2345	0.381	0.232
118	53.51	10:4	209	1.163	23456-23456	0.001	0.001

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

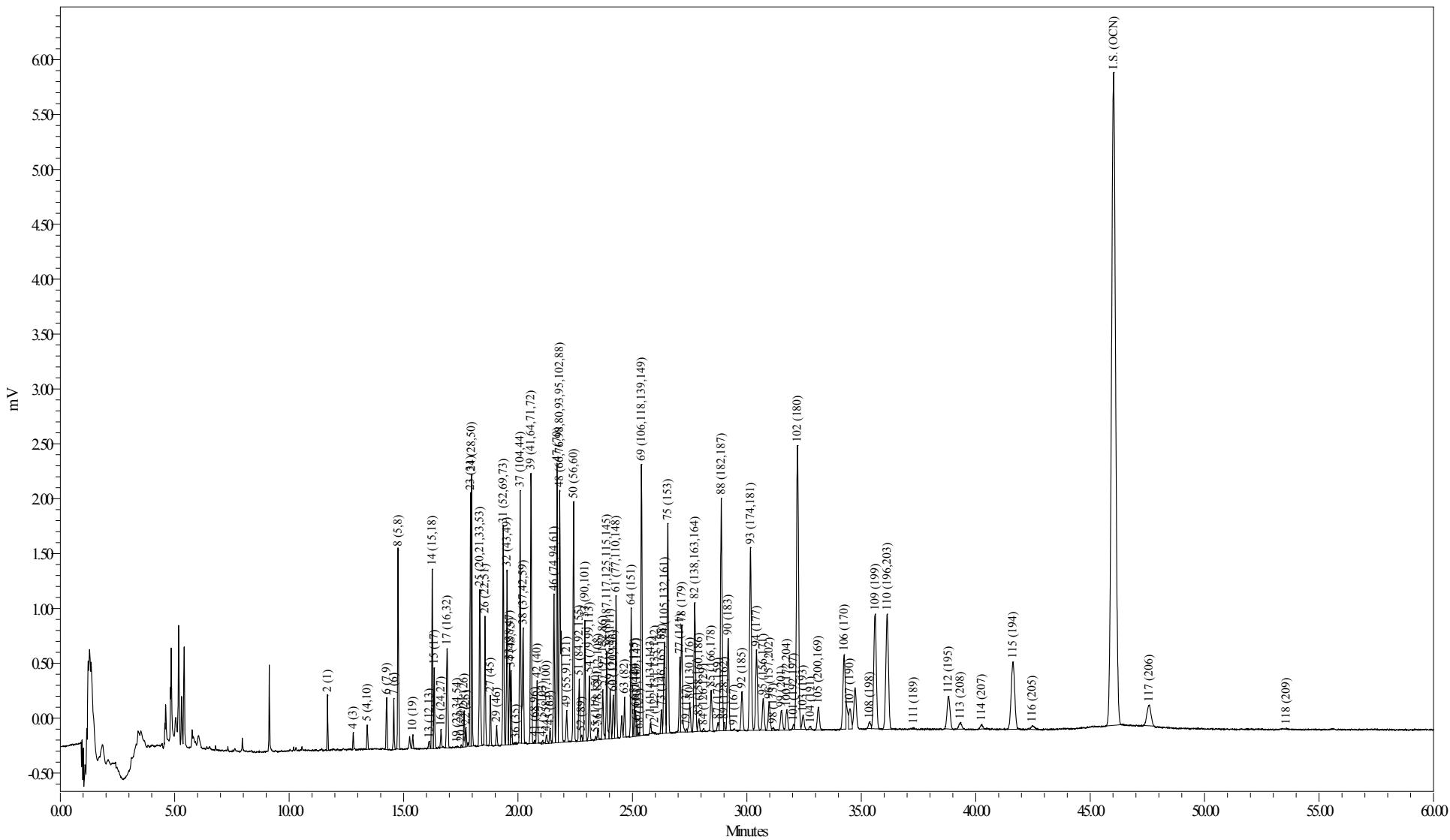
⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Name
Sample ID:
Date Acquired

CCCS0822C
CCC Std 122 ng/mL
8/23/2015 10:55:53 AMEDT

Sample Amount: 1
Dilution: 1
Processing Method: CSGB LL1X 073115
LIMS File ID: GC24-1219-18 [m]

Sample Name: CCCS0822C

1 of 1

Pace Analytical Services, Inc.
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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 10:55:53
 Lab Sample ID: CCCS0822C
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 121 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.40	15.59	A1221	2/001	8.0099	38.7	31.7
Di	12.09	15.26	A1242	23+24/31+28	6.0314	29.2	23.9
Tri	17.51	19.23	A1254SED	61/100	1.5782	7.63	
Tetra	21.95	21.33	A1254BIO	69+75+82/149+153+138	6.1395		24.3
Penta	8.64	7.45	A1260	102/180	3.9361	19.0	15.6
Hexa	7.66	6.06	A1268	115/194	1.1238	5.43	4.45
Hepta	13.58	9.73					
Octa	7.54	4.96					
Nona	0.63	0.38					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.61

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.74

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/23/2015 10:55:53

Lab Sample ID: CCCS0822C

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1219-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	946	8.01	42.4			
3	12.70	188.7		-	-			
4	12.80	188.7	320	4.62	24.5			
5	13.41	223.1	638	2.29	10.3			
6	14.26	223.1	1384	0.738	3.31			
7	14.57	223.1	1109	1.19	5.34			
8	14.76	223.1	4632	9.52	42.7			
9	15.31	223.1		-	-			
10	15.40	257.5	305	0.212	0.825			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.13	223.1	267	0.215	0.963			
14	16.25	249.0	4717	2.95	11.8			
15	16.34	257.5	2051	2.79	10.8			
16	16.64	257.5	435	0.198	0.768			
17	16.90	257.5	3813	2.94	11.4			
19	17.34	267.9	36	0.0229	0.0857			
20	17.52	257.5	68	0.0405	0.157			
21	17.65	257.5	950	0.564	2.19			
22	17.73	257.5	488	0.233	0.907			
23	17.93	257.5	6418	3.03	11.8			
24	17.97	257.5	6906	3.01	11.7			
25	18.33	259.5	5244	2.94	11.3			
26	18.56	258.7	3337	2.01	7.79			
27	18.79	292.0	1355	0.730	2.50			
28	18.92	257.5		-	-			
29	19.07	292.0	529	0.324	1.11			
30	19.18	257.5		-	-			
31	19.35	292.0	6002	4.05	13.9			
32	19.52	292.0	4922	1.69	5.80			
33	19.63	292.0	2272	0.527	1.81			
34	19.70	292.0	2059	0.732	2.51			
35	19.84	292.0		-	-			
36	19.91	257.5	52	0.0456	0.177			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7151	3.23	11.1			
38	20.22	272.4	3939	2.22	8.16			
39	20.57	292.0	7888	2.81	9.62			
41	20.73	326.4	75	0.0428	0.131			
42	20.83	292.0	1731	0.765	2.62			
43	21.08	298.9	99	0.0419	0.140			
44	21.24	298.9	317	0.103	0.344			
45	21.40	292.0	459	0.150	0.514			
46	21.57	292.0	4355	1.04	3.56			
47	21.71	292.0	8138	2.43	8.31			
48	21.82	293.5	10601	4.74	16.2			
49	22.13	324.7	1003	0.425	1.31			
50	22.43	292.0	7106	2.31	7.89			
51	22.67	326.4	2059	1.64	5.02			
52	22.78	326.4	189	0.0940	0.288			
53	22.92	326.4	3662	1.30	3.97			
54	23.12	326.4	1937	0.451	1.38			
55	23.39	326.4	107	0.0186	0.0571			
56	23.50	326.4	350	0.158	0.483			
57	23.70	326.4	1615	0.461	1.41			
58	23.88	326.4	2822	0.924	2.83			
59	24.03	326.4	1514	0.413	1.27			
60	24.16	360.9	1509	0.493	1.37			
61	24.29	326.4	4251	1.58	4.84			
62	24.56	360.9	-	-	-			
63	24.65	326.4	1182	0.360	1.10			
64	24.94	360.9	3917	1.30	3.62			
65	25.08	350.5	1026	0.194	0.554			
66	25.14	360.9	789	0.489	1.35			
67	25.19	336.8	239	0.0854	0.254			
68	25.30	326.4	93	0.0312	0.0955			
69	25.39	337.5	9121	2.76	8.17			
70	25.51	360.9	-	-	-			
71	25.79	347.8	345	0.117	0.337			
72	25.97	336.8	46	0.0109	0.0322			
73	26.27	360.9	749	0.218	0.603			
74	26.40	347.8	3903	0.888	2.55			
75	26.55	360.9	7527	1.84	5.10			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2595	1.08	2.99			
78	27.15	395.3	4104	1.35	3.43			
79	27.36	360.9	103	0.0776	0.215			
80	27.50	360.9	1239	0.202	0.560			
82	27.72	360.9	5783	1.54	4.27			
83	27.90	360.9	485	0.126	0.350			
84	28.11	360.9	122	0.00965	0.0267			
85	28.44	395.3	1711	0.870	2.20			
87	28.74	395.3	312	0.171	0.432			
88	28.88	395.3	10340	2.81	7.11			
89	29.00	360.9	287	0.0555	0.154			
90	29.18	395.3	4161	1.19	3.01			
91	29.43	360.9	40	0.0114	0.0315			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.78	394.3	1793	0.361	0.914			
93	30.16	394.3	9003	2.54	6.43			
94	30.42	394.3	3963	1.28	3.24			
95	30.71	382.2	1592	0.498	1.30			
96	30.97	429.8	1500	0.0637	0.148			
98	31.14	395.3	141	0.0355	0.0898			
99	31.51	429.8	1085	0.365	0.849			
100	31.74	395.3	1097	0.381	0.964			
101	32.03	429.8	195	0.0819	0.191			
102	32.21	395.3	16589	3.94	9.96			
103	32.45	395.3	779	0.255	0.644			
104	32.77	395.3	156	0.0537	0.136			
105	33.12	429.8	1332	0.391	0.909			
106	34.25	395.3	4753	0.696	1.76			
107	34.49	395.3	1276	0.234	0.592			
108	35.36	429.8	390	0.0952	0.221			
109	35.61	429.8	8273	3.42	7.95			
110	36.13	429.8	8441	3.15	7.32			
111	37.29	395.3	90	0.0246	0.0621			
112	38.80	429.8	2674	0.383	0.891			
113	39.33	464.2	525	0.245	0.529			
114	40.26	464.2	301	0.0668	0.144			
115	41.62	429.8	6550	1.12	2.61			
116	42.47	429.8	378	0.0865	0.201			
117	47.58	464.2	2357	0.448	0.965			
118	53.56	498.6	19	0.00294	0.00589			

Total Concentration = 121 ng/mL

Total Nanomoles = 0.429

Average Molecular Weight = 283.0

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 74096.4

Pace Analytical Services, Inc.
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/23/2015 10:55:53
 Lab Sample ID: CCCS0822C
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1219-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2537	2	6.595	9.891
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.801	5.701
5	13.41	2:2	004 010	0.2913	2-2; 26	1.884	2.390
6	14.26	2:1	007 009	0.3098	24; 25	0.608	0.771
7	14.57	2:1	006	0.3165	2-3	0.981	1.244
8	14.76	2:1	005 008	0.3207	23; 2-4	7.842	9.948
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.175	0.192
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.13	2:0	012 013	0.3504	34; 3-4	0.177	0.224
14	16.25	2:0 3:2	015 018	0.3530	4-4; 25-2	2.427	2.758
15	16.34	3:2	017	0.3550	24-2	2.294	2.521
16	16.64	3:2	024 027	0.3615	236; 26-3	0.163	0.179
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.421	2.661
19	17.34	3:1 4:4	023 034 054	0.3767	235; 35-2; 26-26	0.019	0.020
20	17.52	3:1	029	0.3806	245	0.033	0.037
21	17.65	3:1	026	0.3834	25-3	0.465	0.511
22	17.73	3:1	025	0.3852	24-3	0.192	0.211
23	17.93	3:1	031	0.3895	25-4	2.492	2.739
24	17.97	3:1 4:3	028 050	0.3904	24-4; 246-2	2.474	2.720
25	18.33	3:1 4:3	020 021 033 053	0.3982	23-3; 234; 34-2; 25-26	2.419	2.638
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	1.659	1.815
27	18.79	4:3	045	0.4082	236-2	0.601	0.582
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	0.267	0.259
30	19.18	3:0	039		35-4	-	-
31	19.35	4:2	052 069 073	0.4204	25-25; 246-3; 26-35	3.337	3.234
32	19.52	4:2	043 049	0.4241	235-2; 24-25	1.395	1.352
33	19.63	4:2	038 047	0.4265	345; 24-24	0.434	0.421
34	19.70	4:2	048 075	0.4280	245-2; 246-4	0.603	0.584
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.91	3:0	035	0.4325	34-3	0.038	0.041
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.664	2.582
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	1.830	1.901
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	2.313	2.242

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.73	5:4	068 096	0.4504	24-35; 236-26	0.035	0.031
42	20.83	4:2	040	0.4525	23-23	0.630	0.610
43	21.08	4:1 5:3	057 103	0.4580	235-3; 246-25	0.035	0.033
44	21.24	4:1 5:3	058 067 100	0.4614	23-35; 245-3; 246-24	0.085	0.080
45	21.40	4:1	063	0.4649	235-4	0.124	0.120
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	0.856	0.830
47	21.71	4:1	070	0.4716	25-34	1.998	1.936
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4740	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.905	3.766
49	22.13	4:1 5:3	055 091 121	0.4808	234-3; 236-24; 246-35	0.350	0.305
50	22.43	4:1	056 060	0.4873	23-34; 234-4	1.898	1.840
51	22.67	5:3 6:4	084 092 155	0.4925	236-23; 235-25; 246-246	1.350	1.171
52	22.78	5:3	089	0.4949	234-26	0.077	0.067
53	22.92	5:2	090 101	0.4979	235-24; 245-25	1.067	0.925
54	23.12	5:2	079 099 113	0.5023	34-35; 245-24; 236-35	0.371	0.322
55	23.39	5:2 6:4	119 150	0.5081	246-34; 236-246	0.015	0.013
56	23.50	5:2	078 083 112 108	0.5105	345-3; 235-23; 2356-3; 2346-3	0.130	0.113
57	23.70	5:2 6:4	097 152 086	0.5149	245-23; 2356-26; 2345-2	0.379	0.329
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.761	0.660
59	24.03	5:2	116 085 111	0.5221	23456; 234-24; 235-35	0.340	0.295
60	24.16	6:4	120 136	0.5249	245-35; 236-236	0.406	0.318
61	24.29	5:2	077 110 148	0.5277	34-34; 236-34; 235-246	1.299	1.127
62	24.56	6:3	154		245-246	-	-
63	24.65	5:2	082	0.5355	234-23	0.297	0.257
64	24.94	6:3	151	0.5418	2356-25	1.074	0.843
65	25.08	5:1 6:3	124 135	0.5449	345-25; 235-236	0.160	0.129
66	25.14	6:3	144	0.5462	2346-25	0.402	0.316
67	25.19	5:1 6:3	107 109 147	0.5473	234-35; 235-34; 2356-24	0.070	0.059
68	25.30	5:1	123	0.5496	345-24	0.026	0.022
69	25.39	5:1 6:3	106 118 139 149	0.5516	2345-3; 245-34; 2346-24; 236-245	2.269	1.903
70	25.51	6:3	140		234-246	-	-
71	25.79	5:1 6:3	114 134 143	0.5603	2345-4; 2356-23; 2345-26	0.096	0.078
72	25.97	5:1 6:3	122 131 133 142	0.5642	345-23; 2346-23; 235-235; 23456-2	0.009	0.008
73	26.27	6:2	146 165 188	0.5707	235-245; 2356-35; 2356-246	0.179	0.141
74	26.40	5:1 6:3	105 132 161	0.5735	234-34; 234-236; 2346-35	0.731	0.595
75	26.55	6:2	153	0.5768	245-245	1.517	1.189
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5881	2345-25	0.889	0.697
78	27.15	7:4	179	0.5898	2356-236	1.115	0.798
79	27.36	6:2	137	0.5944	2345-24	0.064	0.050
80	27.50	6:2 7:4	130 176	0.5974	234-235; 2346-236	0.166	0.130
82	27.72	6:2	138 163 164	0.6022	234-245; 2356-34; 236-345	1.269	0.995
83	27.90	6:2	158 160 186	0.6061	2346-34; 23456-3; 23456-26	0.104	0.082
84	28.11	6:2	126 129	0.6107	345-34; 2345-23	0.008	0.006
85	28.44	7:3	166 178	0.6179	23456-4; 2356-235	0.716	0.513
87	28.74	7:3	175 159	0.6244	2346-235; 2345-35	0.141	0.101
88	28.88	7:3	182 187	0.6274	2345-246; 2356-245	2.315	1.657
89	29.00	6:2	128 162	0.6300	234-234; 235-345	0.046	0.036
90	29.18	7:3	183	0.6339	2346-245	0.978	0.700
91	29.43	6:1	167	0.6394	245-345	0.009	0.007
92	29.78	7:3	185	0.6470	23456-25	0.297	0.213
93	30.16	7:3	174 181	0.6552	2345-236; 23456-24	2.089	1.499
94	30.42	7:3	177	0.6609	2356-234	1.050	0.754
95	30.71	6:1 7:3	156 171	0.6672	2345-34; 2346-234	0.410	0.303
96	30.97	8:4	157 202	0.6728	234-345; 2356-2356	0.052	0.035
98	31.14	7:3	173	0.6765	23456-23	0.029	0.021
99	31.51	8:4	201	0.6846	2346-2356	0.300	0.198
100	31.74	7:2	172 204	0.6896	2345-235; 23456-246	0.314	0.225
101	32.03	8:4	192 197	0.6959	23456-35; 2346-2346	0.067	0.044
102	32.21	7:2	180	0.6998	2345-245	3.241	2.320
103	32.45	7:2	193	0.7050	2356-345	0.210	0.150
104	32.77	7:2	191	0.7119	2346-345	0.044	0.032
105	33.12	8:4	200 169	0.7195	23456-236; 345-345	0.322	0.212
106	34.25	7:2	170	0.7441	2345-234	0.573	0.410

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.49	7:2	190	0.7493	23456-34	0.193	0.138
108	35.36	8:3	198	0.7682	23456-235	0.078	0.052
109	35.61	8:3	199	0.7736	2345-2356	2.814	1.853
110	36.13	8:3	196 203	0.7849	2345-2346; 23456-245	2.590	1.706
111	37.29	7:1	189	0.8101	2345-345	0.020	0.014
112	38.80	8:3	195	0.8429	23456-234	0.315	0.208
113	39.33	9:4	208	0.8544	23456-2356	0.202	0.123
114	40.26	9:4	207	0.8746	23456-2346	0.055	0.034
115	41.62	8:2	194	0.9042	2345-2345	0.925	0.609
116	42.47	8:2	205	0.9227	23456-345	0.071	0.047
117	47.58	9:3	206	1.034	23456-2345	0.369	0.225
118	53.56	10:4	209	1.164	23456-23456	0.002	0.001

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 121 ng/mL

Total Nanomoles = 0.429

Average Molecular Weight = 283.0

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

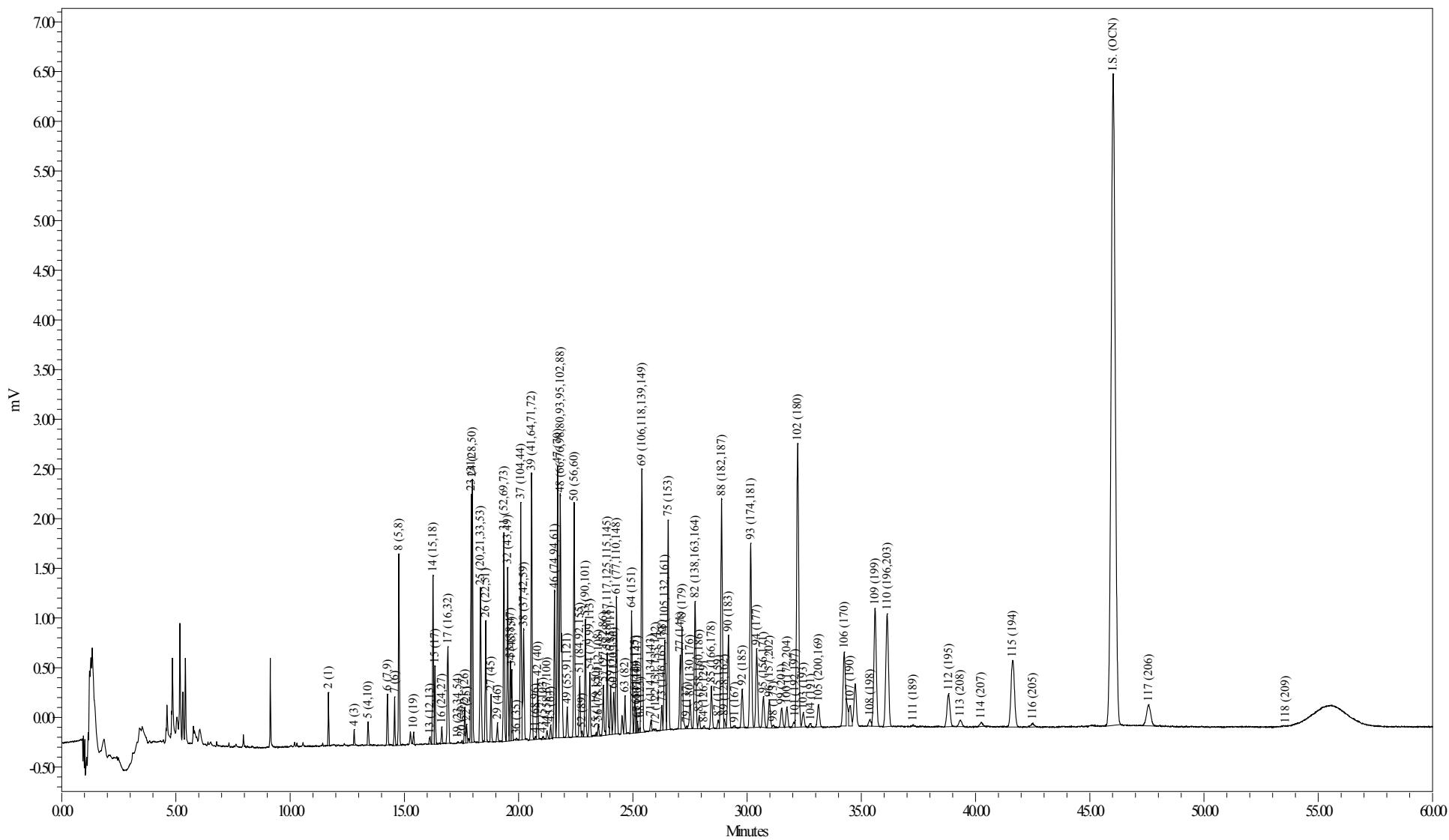
⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Name:
Sample ID:
Date Acquired:

CCCS0824C
CCC Std 122 ng/mL
8/25/2015 6:27:13 AMEDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LLIX 073115
GC24-1220-16 [m]

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 06:27:13
 Lab Sample ID: CCCS0824C
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1220-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.27	15.43	A1221	2/001	7.4598	37.9	31.0
Di	12.12	15.32	A1242	23+24/31+28	5.7806	29.4	24.0
Tri	17.36	19.09	A1254SED	61/100	1.5046	7.65	
Tetra	21.85	21.27	A1254BIO	69+75+82/149+153+138	5.9256		24.6
Penta	8.65	7.47	A1260	102/180	3.8177	19.4	15.8
Hexa	7.69	6.10	A1268	115/194	1.1040	5.61	4.58
Hepta	13.74	9.87					
Octa	7.64	5.04					
Nona	0.68	0.41					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.61

Meta + Para Cl / biphenyl Residue = 2.15

Total Cl / biphenyl Residue = 3.75

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/25/2015 06:27:13

Lab Sample ID: CCCS0824C

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1220-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	986	7.46	39.5			
3	12.70	188.7		-	-			
4	12.80	188.7	353	4.55	24.1			
5	13.41	223.1	694	2.22	9.97			
6	14.26	223.1	1470	0.701	3.14			
7	14.57	223.1	1217	1.17	5.24			
8	14.76	223.1	5007	9.20	41.2			
9	15.31	223.1		-	-			
10	15.40	257.5	307	0.191	0.742			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.12	223.1	257	0.184	0.827			
14	16.25	249.0	5024	2.80	11.3			
15	16.34	257.5	2142	2.60	10.1			
16	16.64	257.5	477	0.194	0.753			
17	16.90	257.5	4014	2.77	10.7			
19	17.33	267.9	29	0.0165	0.0616			
20	17.52	257.5	68	0.0359	0.139			
21	17.65	257.5	1035	0.549	2.13			
22	17.73	257.5	529	0.226	0.879			
23	17.93	257.5	6875	2.90	11.2			
24	17.97	257.5	7422	2.88	11.2			
25	18.33	259.5	5658	2.83	10.9			
26	18.56	258.7	3642	1.96	7.59			
27	18.79	292.0	1454	0.699	2.39			
28	18.92	257.5		-	-			
29	19.07	292.0	575	0.315	1.08			
30	19.18	257.5		-	-			
31	19.36	292.0	6471	3.90	13.4			
32	19.52	292.0	5296	1.63	5.58			
33	19.64	292.0	2440	0.506	1.73			
34	19.70	292.0	2220	0.706	2.42			
35	19.84	292.0		-	-			
36	19.90	257.5	71	0.0551	0.214			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7738	3.13	10.7			
38	20.22	272.4	4211	2.12	7.79			
39	20.57	292.0	8512	2.71	9.28			
41	20.74	326.4	93	0.0476	0.146			
42	20.83	292.0	1890	0.746	2.56			
43	21.07	298.9	109	0.0413	0.138			
44	21.24	298.9	290	0.0841	0.281			
45	21.40	292.0	424	0.124	0.424			
46	21.57	292.0	4581	0.977	3.34			
47	21.71	292.0	8666	2.31	7.90			
48	21.82	293.5	11303	4.52	15.4			
49	22.13	324.7	1020	0.386	1.19			
50	22.43	292.0	7674	2.22	7.62			
51	22.67	326.4	2203	1.57	4.80			
52	22.77	326.4	182	0.0808	0.248			
53	22.92	326.4	3915	1.24	3.79			
54	23.12	326.4	2105	0.438	1.34			
55	23.40	326.4	104	0.0163	0.0500			
56	23.49	326.4	406	0.163	0.500			
57	23.71	326.4	1771	0.452	1.38			
58	23.88	326.4	3042	0.890	2.73			
59	24.03	326.4	1655	0.404	1.24			
60	24.16	360.9	1646	0.480	1.33			
61	24.28	326.4	4536	1.50	4.61			
62	24.56	360.9	-	-	-			
63	24.66	326.4	1285	0.350	1.07			
64	24.95	360.9	4205	1.25	3.47			
65	25.09	350.5	1206	0.204	0.582			
66	25.14	360.9	795	0.440	1.22			
67	25.20	336.8	261	0.0833	0.247			
68	25.33	326.4	150	0.0450	0.138			
69	25.40	337.5	9886	2.67	7.91			
70	25.51	360.9	-	-	-			
71	25.80	347.8	452	0.137	0.394			
72	25.99	336.8	61	0.0127	0.0376			
73	26.27	360.9	859	0.223	0.618			
74	26.39	347.8	4236	0.861	2.48			
75	26.55	360.9	8075	1.76	4.89			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2793	1.04	2.88			
78	27.15	395.3	4489	1.32	3.35			
79	27.35	360.9	84	0.0566	0.157			
80	27.50	360.9	1330	0.194	0.537			
82	27.72	360.9	6267	1.49	4.14			
83	27.90	360.9	546	0.127	0.352			
84	28.11	360.9	94	0.00659	0.0183			
85	28.44	395.3	1894	0.861	2.18			
87	28.73	395.3	370	0.181	0.458			
88	28.88	395.3	11191	2.72	6.88			
89	29.01	360.9	360	0.0622	0.172			
90	29.18	395.3	4536	1.16	2.93			
91	29.47	360.9	108	0.0284	0.0787			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.79	394.3	1915	0.344	0.873			
93	30.16	394.3	9773	2.46	6.24			
94	30.42	394.3	4265	1.23	3.11			
95	30.72	382.2	1755	0.490	1.28			
96	30.98	429.8	1615	0.0613	0.143			
98	31.14	395.3	187	0.0421	0.107			
99	31.51	429.8	1131	0.340	0.791			
100	31.74	395.3	1147	0.356	0.900			
101	32.10	429.8	298	0.112	0.262			
102	32.22	395.3	18011	3.82	9.66			
103	32.46	395.3	877	0.256	0.648			
104	32.78	395.3	232	0.0712	0.180			
105	33.13	429.8	1443	0.378	0.880			
106	34.25	395.3	5341	0.699	1.77			
107	34.51	395.3	1428	0.234	0.592			
108	35.38	429.8	460	0.100	0.233			
109	35.60	429.8	9000	3.32	7.73			
110	36.13	429.8	9199	3.06	7.13			
111	37.27	395.3	56	0.0139	0.0350			
112	38.82	429.8	2977	0.381	0.886			
113	39.33	464.2	597	0.250	0.538			
114	40.24	464.2	366	0.0724	0.156			
115	41.62	429.8	7200	1.10	2.57			
116	42.50	429.8	346	0.0707	0.164			
117	47.57	464.2	2770	0.471	1.01			
118	53.57	498.6	6	0.000789	0.00158			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.412

Average Molecular Weight = 283.5

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.02 minutes

OCN Internal Standard Peak Area = 82912.5

Pace Analytical Services, Inc.
 2190 Technology Drive
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 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 06:27:13
 Lab Sample ID: CCCS0824C
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1220-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2538	2	6.380	9.586
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.890	5.845
5	13.41	2:2	004 010	0.2914	2-2; 26	1.902	2.417
6	14.26	2:1	007 009	0.3099	24; 25	0.599	0.762
7	14.57	2:1	006	0.3166	2-3	0.999	1.269
8	14.76	2:1	005 008	0.3207	23; 2-4	7.865	9.995
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.163	0.180
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.12	2:0	012 013	0.3503	34; 3-4	0.158	0.201
14	16.25	2:0 3:2	015 018	0.3531	4-4; 25-2	2.399	2.731
15	16.34	3:2	017	0.3551	24-2	2.223	2.447
16	16.64	3:2	024 027	0.3616	236; 26-3	0.166	0.183
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.365	2.604
19	17.33	3:1 4:4	023 034 054	0.3766	235; 35-2; 26-26	0.014	0.015
20	17.52	3:1	029	0.3807	245	0.031	0.034
21	17.65	3:1	026	0.3835	25-3	0.470	0.517
22	17.73	3:1	025	0.3853	24-3	0.194	0.213
23	17.93	3:1	031	0.3896	25-4	2.477	2.727
24	17.97	3:1 4:3	028 050	0.3905	24-4; 246-2	2.467	2.716
25	18.33	3:1 4:3	020 021 033 053	0.3983	23-3; 234; 34-2; 25-26	2.422	2.646
26	18.56	3:1 4:3	022 051	0.4033	23-4; 24-26	1.680	1.841
27	18.79	4:3	045	0.4083	236-2	0.598	0.581
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4144	23-26	0.269	0.262
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073	0.4207	25-25; 246-3; 26-35	3.339	3.242
32	19.52	4:2	043 049	0.4242	235-2; 24-25	1.393	1.353
33	19.64	4:2	038 047	0.4268	345; 24-24	0.432	0.420
34	19.70	4:2	048 075	0.4281	245-2; 246-4	0.603	0.586
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.90	3:0	035	0.4324	34-3	0.047	0.052
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.675	2.597
38	20.22	3:0 4:2	037 042 059	0.4394	34-4; 23-24; 236-3	1.815	1.889
39	20.57	4:2	041 064 071 072	0.4470	234-2; 236-4; 26-34; 25-35	2.316	2.249

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.74	5:4	068 096	0.4507	24-35; 236-26	0.041	0.035
42	20.83	4:2	040	0.4526	23-23	0.638	0.620
43	21.07	4:1 5:3	057 103	0.4578	235-3; 246-25	0.035	0.034
44	21.24	4:1 5:3	058 067 100	0.4615	23-35; 245-3; 246-24	0.072	0.068
45	21.40	4:1	063	0.4650	235-4	0.106	0.103
46	21.57	4:1 5:3	074 094 061	0.4687	245-4; 235-26; 2345	0.835	0.811
47	21.71	4:1	070	0.4718	25-34	1.974	1.917
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4741	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.862	3.731
49	22.13	4:1 5:3	055 091 121	0.4809	234-3; 236-24; 246-35	0.330	0.288
50	22.43	4:1	056 060	0.4874	23-34; 234-4	1.903	1.848
51	22.67	5:3 6:4	084 092 155	0.4926	236-23; 235-25; 246-246	1.340	1.164
52	22.77	5:3	089	0.4948	234-26	0.069	0.060
53	22.92	5:2	090 101	0.4980	235-24; 245-25	1.059	0.920
54	23.12	5:2	079 099 113	0.5024	34-35; 245-24; 236-35	0.375	0.325
55	23.40	5:2 6:4	119 150	0.5085	246-34; 236-246	0.014	0.012
56	23.49	5:2	078 083 112 108	0.5104	345-3; 235-23; 2356-3; 2346-3	0.140	0.121
57	23.71	5:2 6:4	097 152 086	0.5152	245-23; 2356-26; 2345-2	0.386	0.336
58	23.88	5:2	081 087 117 125 115 145	0.5189	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.761	0.661
59	24.03	5:2	116 085 111	0.5222	23456; 234-24; 235-35	0.345	0.300
60	24.16	6:4	120 136	0.5250	245-35; 236-236	0.411	0.323
61	24.28	5:2	077 110 148	0.5276	34-34; 236-34; 235-246	1.287	1.118
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5359	234-23	0.299	0.260
64	24.95	6:3	151	0.5422	2356-25	1.070	0.841
65	25.09	5:1 6:3	124 135	0.5452	345-25; 235-236	0.174	0.141
66	25.14	6:3	144	0.5463	2346-25	0.376	0.296
67	25.20	5:1 6:3	107 109 147	0.5476	234-35; 235-34; 2356-24	0.071	0.060
68	25.33	5:1	123	0.5504	345-24	0.039	0.033
69	25.40	5:1 6:3	106 118 139 149	0.5519	2345-3; 245-34; 2346-24; 236-245	2.282	1.917
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143	0.5606	2345-4; 2356-23; 2345-26	0.117	0.096
72	25.99	5:1 6:3	122 131 133 142	0.5648	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	26.27	6:2	146 165 188	0.5708	235-245; 2356-35; 2356-246	0.191	0.150
74	26.39	5:1 6:3	105 132 161	0.5734	234-34; 234-236; 2346-35	0.736	0.600
75	26.55	6:2	153	0.5769	245-245	1.509	1.186
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5882	2345-25	0.889	0.698
78	27.15	7:4	179	0.5900	2356-236	1.132	0.812
79	27.35	6:2	137	0.5943	2345-24	0.048	0.038
80	27.50	6:2 7:4	130 176	0.5976	234-235; 2346-236	0.166	0.130
82	27.72	6:2	138 163 164	0.6023	234-245; 2356-34; 236-345	1.277	1.003
83	27.90	6:2	158 160 186	0.6063	2346-34; 23456-3; 23456-26	0.109	0.085
84	28.11	6:2	126 129	0.6108	345-34; 2345-23	0.006	0.004
85	28.44	7:3	166 178	0.6180	23456-4; 2356-235	0.736	0.528
87	28.73	7:3	175 159	0.6243	2346-235; 2345-35	0.155	0.111
88	28.88	7:3	182 187	0.6276	2345-246; 2356-245	2.325	1.667
89	29.01	6:2	128 162	0.6304	234-234; 235-345	0.053	0.042
90	29.18	7:3	183	0.6341	2346-245	0.990	0.710
91	29.47	6:1	167	0.6404	245-345	0.024	0.019
92	29.79	7:3	185	0.6473	23456-25	0.294	0.212
93	30.16	7:3	174 181	0.6554	2345-236; 23456-24	2.104	1.513
94	30.42	7:3	177	0.6610	2356-234	1.049	0.754
95	30.72	6:1 7:3	156 171	0.6675	2345-34; 2346-234	0.419	0.311
96	30.98	8:4	157 202	0.6732	234-345; 2356-2356	0.052	0.035
98	31.14	7:3	173	0.6767	23456-23	0.036	0.026
99	31.51	8:4	201	0.6847	2346-2356	0.291	0.192
100	31.74	7:2	172 204	0.6897	2345-235; 23456-246	0.304	0.218
101	32.10	8:4	192 197	0.6975	23456-35; 2346-2346	0.096	0.063
102	32.22	7:2	180	0.7001	2345-245	3.265	2.342
103	32.46	7:2	193	0.7053	2356-345	0.219	0.157
104	32.78	7:2	191	0.7123	2346-345	0.061	0.044
105	33.13	8:4	200 169	0.7199	23456-236; 345-345	0.323	0.213
106	34.25	7:2	170	0.7442	2345-234	0.598	0.429

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.51	7:2	190	0.7499	23456-34	0.200	0.143
108	35.38	8:3	198	0.7688	23456-235	0.086	0.057
109	35.60	8:3	199	0.7736	2345-2356	2.842	1.875
110	36.13	8:3	196 203	0.7851	2345-2346; 23456-245	2.620	1.728
111	37.27	7:1	189	0.8099	2345-345	0.012	0.008
112	38.82	8:3	195	0.8435	23456-234	0.326	0.215
113	39.33	9:4	208	0.8546	23456-2356	0.213	0.130
114	40.24	9:4	207	0.8744	23456-2346	0.062	0.038
115	41.62	8:2	194	0.9044	2345-2345	0.944	0.623
116	42.50	8:2	205	0.9235	23456-345	0.060	0.040
117	47.57	9:3	206	1.034	23456-2345	0.403	0.246
118	53.57	10:4	209	1.164	23456-23456	0.001	0.000

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 117 ng/mL

Total Nanomoles = 0.412

Average Molecular Weight = 283.5

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

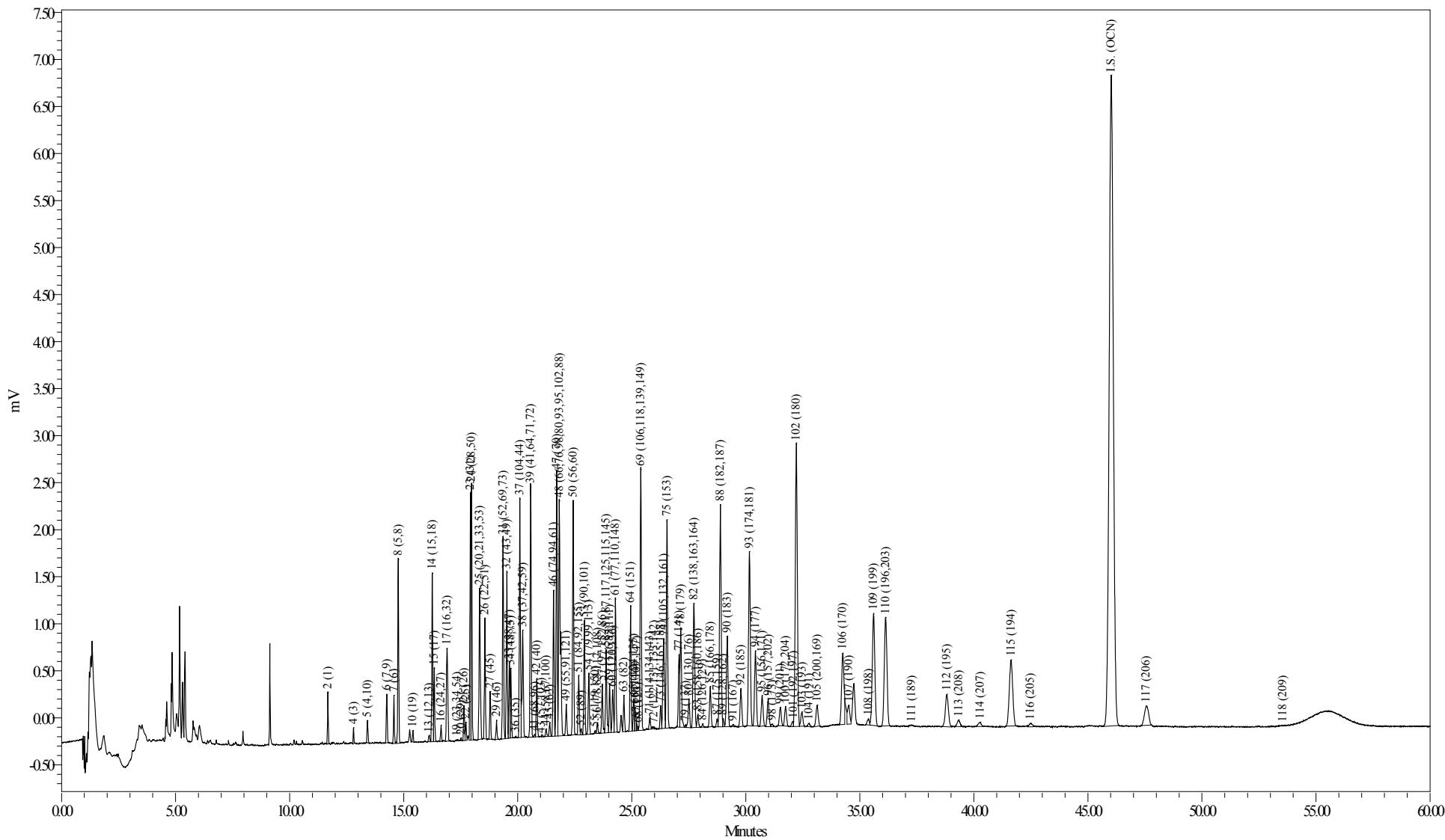
⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Name:
Sample ID:
Date Acquired:

CCCS0825A
CCC Std 122 ng/mL
8/25/2015 5:23:10 PM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LLIX 073115
GC24-1221-8 [m]

Pace Analytical Services, Inc.
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 17:23:10
 Lab Sample ID: CCCS0825A
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1221-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 114 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.28	15.45	A1221	2/001	7.4395	38.3	31.3
Di	12.08	15.27	A1242	23+24/31+28	5.6561	29.1	23.8
Tri	17.30	19.02	A1254SED	61/100	1.4892	7.67	
Tetra	21.96	21.38	A1254BIO	69+75+82/149+153+138	5.8412		24.6
Penta	8.66	7.48	A1260	102/180	3.7622	19.4	15.8
Hexa	7.79	6.17	A1268	115/194	1.0652	5.49	4.48
Hepta	13.69	9.83					
Octa	7.57	5.00					
Nona	0.66	0.40					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.61

Meta + Para Cl / biphenyl Residue = 2.15

Total Cl / biphenyl Residue = 3.75

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/25/2015 17:23:10

Lab Sample ID: CCCS0825A

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1221-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	1035	7.44	39.4			
3	12.70	188.7		-	-			
4	12.80	188.7	351	4.30	22.8			
5	13.41	223.1	672	2.04	9.15			
6	14.26	223.1	1492	0.675	3.03			
7	14.57	223.1	1278	1.16	5.22			
8	14.76	223.1	5190	9.05	40.6			
9	15.31	223.1		-	-			
10	15.40	257.5	312	0.184	0.713			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.11	223.1	262	0.179	0.802			
14	16.25	249.0	5162	2.74	11.0			
15	16.34	257.5	2175	2.50	9.72			
16	16.64	257.5	485	0.187	0.726			
17	16.90	257.5	4149	2.71	10.5			
19	17.34	267.9	28	0.0149	0.0557			
20	17.51	257.5	59	0.0295	0.114			
21	17.65	257.5	1051	0.529	2.05			
22	17.73	257.5	546	0.222	0.861			
23	17.93	257.5	6834	2.73	10.6			
24	17.97	257.5	7923	2.92	11.4			
25	18.33	259.5	5787	2.75	10.6			
26	18.56	258.7	3718	1.90	7.36			
27	18.79	292.0	1484	0.677	2.32			
28	18.92	257.5		-	-			
29	19.07	292.0	613	0.319	1.09			
30	19.18	257.5		-	-			
31	19.36	292.0	6661	3.81	13.1			
32	19.52	292.0	5414	1.58	5.41			
33	19.63	292.0	2517	0.495	1.70			
34	19.70	292.0	2205	0.665	2.28			
35	19.84	292.0		-	-			
36	19.91	257.5	25	0.0182	0.0706			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7942	3.05	10.4			
38	20.22	272.4	4409	2.11	7.74			
39	20.57	292.0	8771	2.65	9.07			
41	20.75	326.4	104	0.0506	0.155			
42	20.83	292.0	1931	0.723	2.48			
43	21.04	298.9	81	0.0291	0.0972			
44	21.25	298.9	291	0.0801	0.268			
45	21.41	292.0	463	0.128	0.440			
46	21.57	292.0	4824	0.976	3.34			
47	21.71	292.0	9031	2.28	7.82			
48	21.82	293.5	11824	4.48	15.3			
49	22.13	324.7	1100	0.396	1.22			
50	22.43	292.0	7980	2.20	7.52			
51	22.67	326.4	2253	1.52	4.66			
52	22.78	326.4	195	0.0825	0.253			
53	22.92	326.4	4043	1.21	3.72			
54	23.12	326.4	2158	0.426	1.31			
55	23.40	326.4	87	0.0130	0.0398			
56	23.49	326.4	371	0.142	0.434			
57	23.71	326.4	1807	0.437	1.34			
58	23.88	326.4	3152	0.875	2.68			
59	24.03	326.4	1725	0.399	1.22			
60	24.16	360.9	1728	0.479	1.33			
61	24.28	326.4	4730	1.49	4.56			
62	24.56	360.9	-	-	-			
63	24.66	326.4	1310	0.339	1.04			
64	24.95	360.9	4350	1.23	3.41			
65	25.08	350.5	1238	0.199	0.567			
66	25.14	360.9	904	0.475	1.32			
67	25.21	336.8	196	0.0588	0.174			
68	25.29	326.4	90	0.0257	0.0786			
69	25.40	337.5	10257	2.63	7.79			
70	25.51	360.9	-	-	-			
71	25.79	347.8	480	0.138	0.397			
72	25.97	336.8	68	0.0134	0.0398			
73	26.27	360.9	869	0.214	0.594			
74	26.40	347.8	4428	0.854	2.46			
75	26.55	360.9	8382	1.74	4.82			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2887	1.02	2.83			
78	27.15	395.3	4605	1.29	3.26			
79	27.35	360.9	93	0.0593	0.164			
80	27.51	360.9	1389	0.192	0.532			
82	27.72	360.9	6522	1.47	4.09			
83	27.90	360.9	590	0.130	0.361			
84	28.11	360.9	132	0.00888	0.0246			
85	28.45	395.3	1912	0.824	2.09			
87	28.74	395.3	341	0.158	0.401			
88	28.89	395.3	11506	2.65	6.71			
89	29.00	360.9	306	0.0502	0.139			
90	29.19	395.3	4699	1.14	2.88			
91	29.45	360.9	102	0.0253	0.0702			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.78	394.3	2026	0.346	0.877			
93	30.16	394.3	9991	2.39	6.05			
94	30.42	394.3	4355	1.19	3.02			
95	30.72	382.2	1814	0.481	1.26			
96	30.98	429.8	1620	0.0584	0.136			
98	31.16	395.3	136	0.0290	0.0733			
99	31.51	429.8	1082	0.308	0.717			
100	31.74	395.3	1178	0.347	0.878			
101	32.08	429.8	273	0.0976	0.227			
102	32.22	395.3	18699	3.76	9.52			
103	32.46	395.3	913	0.253	0.640			
104	32.77	395.3	197	0.0573	0.145			
105	33.13	429.8	1488	0.370	0.861			
106	34.25	395.3	5487	0.682	1.72			
107	34.52	395.3	1387	0.215	0.545			
108	35.37	429.8	388	0.0802	0.187			
109	35.60	429.8	9231	3.24	7.53			
110	36.13	429.8	9415	2.98	6.92			
111	37.28	395.3	4	0.00104	0.00264			
112	38.82	429.8	3171	0.385	0.896			
113	39.34	464.2	636	0.252	0.543			
114	40.28	464.2	426	0.0800	0.172			
115	41.63	429.8	7317	1.07	2.48			
116	42.48	429.8	355	0.0689	0.160			
117	47.55	464.2	2621	0.423	0.910			
118	53.55	498.6	7	0.000851	0.00171			

Total Concentration = 114 ng/mL

Total Nanomoles = 0.403

Average Molecular Weight = 283.5

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 87333.1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 17:23:10
 Lab Sample ID: CCCS0825A
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1221-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2537	2	6.517	9.791
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.765	5.656
5	13.41	2:2	004 010	0.2913	2-2; 26	1.788	2.272
6	14.26	2:1	007 009	0.3098	24; 25	0.591	0.751
7	14.57	2:1	006	0.3165	2-3	1.020	1.296
8	14.76	2:1	005 008	0.3207	23; 2-4	7.926	10.071
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.161	0.177
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013	0.3500	34; 3-4	0.157	0.199
14	16.25	2:0 3:2	015 018	0.3530	4-4; 25-2	2.396	2.728
15	16.34	3:2	017	0.3550	24-2	2.193	2.415
16	16.64	3:2	024 027	0.3615	236; 26-3	0.164	0.180
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.377	2.617
19	17.34	3:1 4:4	023 034 054	0.3767	235; 35-2; 26-26	0.013	0.014
20	17.51	3:1	029	0.3804	245	0.026	0.028
21	17.65	3:1	026	0.3834	25-3	0.463	0.510
22	17.73	3:1	025	0.3852	24-3	0.194	0.214
23	17.93	3:1	031	0.3895	25-4	2.393	2.635
24	17.97	3:1 4:3	028 050	0.3904	24-4; 246-2	2.561	2.820
25	18.33	3:1 4:3	020 021 033 053	0.3982	23-3; 234; 34-2; 25-26	2.408	2.631
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	1.667	1.827
27	18.79	4:3	045	0.4082	236-2	0.593	0.576
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	0.279	0.271
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073	0.4206	25-25; 246-3; 26-35	3.341	3.244
32	19.52	4:2	043 049	0.4241	235-2; 24-25	1.384	1.344
33	19.63	4:2	038 047	0.4265	345; 24-24	0.434	0.421
34	19.70	4:2	048 075	0.4280	245-2; 246-4	0.583	0.566
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.91	3:0	035	0.4325	34-3	0.016	0.018
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.669	2.591
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	1.848	1.923
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	2.321	2.253

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.75	5:4	068 096	0.4508	24-35; 236-26	0.044	0.039
42	20.83	4:2	040	0.4525	23-23	0.634	0.615
43	21.04	4:1 5:3	057 103	0.4571	235-3; 246-25	0.025	0.024
44	21.25	4:1 5:3	058 067 100	0.4617	23-35; 245-3; 246-24	0.070	0.067
45	21.41	4:1	063	0.4651	235-4	0.112	0.109
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	0.855	0.830
47	21.71	4:1	070	0.4716	25-34	2.000	1.942
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4740	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.928	3.794
49	22.13	4:1 5:3	055 091 121	0.4808	234-3; 236-24; 246-35	0.347	0.303
50	22.43	4:1	056 060	0.4873	23-34; 234-4	1.924	1.868
51	22.67	5:3 6:4	084 092 155	0.4925	236-23; 235-25; 246-246	1.333	1.158
52	22.78	5:3	089	0.4949	234-26	0.072	0.063
53	22.92	5:2	090 101	0.4979	235-24; 245-25	1.063	0.923
54	23.12	5:2	079 099 113	0.5023	34-35; 245-24; 236-35	0.373	0.324
55	23.40	5:2 6:4	119 150	0.5084	246-34; 236-246	0.011	0.010
56	23.49	5:2	078 083 112 108	0.5103	345-3; 235-23; 2356-3; 2346-3	0.124	0.108
57	23.71	5:2 6:4	097 152 086	0.5151	245-23; 2356-26; 2345-2	0.383	0.333
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.767	0.666
59	24.03	5:2	116 085 111	0.5221	23456; 234-24; 235-35	0.350	0.304
60	24.16	6:4	120 136	0.5249	245-35; 236-236	0.419	0.329
61	24.28	5:2	077 110 148	0.5275	34-34; 236-34; 235-246	1.305	1.133
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5357	234-23	0.297	0.258
64	24.95	6:3	151	0.5420	2356-25	1.077	0.846
65	25.08	5:1 6:3	124 135	0.5449	345-25; 235-236	0.174	0.141
66	25.14	6:3	144	0.5462	2346-25	0.416	0.327
67	25.21	5:1 6:3	107 109 147	0.5477	234-35; 235-34; 2356-24	0.051	0.043
68	25.29	5:1	123	0.5494	345-24	0.022	0.020
69	25.40	5:1 6:3	106 118 139 149	0.5518	2345-3; 245-34; 2346-24; 236-245	2.302	1.934
70	25.51	6:3	140		234-246	-	-
71	25.79	5:1 6:3	114 134 143	0.5603	2345-4; 2356-23; 2345-26	0.121	0.099
72	25.97	5:1 6:3	122 131 133 142	0.5642	345-23; 2346-23; 235-235; 23456-2	0.012	0.010
73	26.27	6:2	146 165 188	0.5707	235-245; 2356-35; 2356-246	0.188	0.147
74	26.40	5:1 6:3	105 132 161	0.5735	234-34; 234-236; 2346-35	0.748	0.610
75	26.55	6:2	153	0.5768	245-245	1.523	1.196
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5881	2345-25	0.893	0.702
78	27.15	7:4	179	0.5898	2356-236	1.130	0.810
79	27.35	6:2	137	0.5942	2345-24	0.052	0.041
80	27.51	6:2 7:4	130 176	0.5977	234-235; 2346-236	0.168	0.132
82	27.72	6:2	138 163 164	0.6022	234-245; 2356-34; 236-345	1.292	1.015
83	27.90	6:2	158 160 186	0.6061	2346-34; 23456-3; 23456-26	0.114	0.090
84	28.11	6:2	126 129	0.6107	345-34; 2345-23	0.008	0.006
85	28.45	7:3	166 178	0.6181	23456-4; 2356-235	0.722	0.518
87	28.74	7:3	175 159	0.6244	2346-235; 2345-35	0.139	0.100
88	28.89	7:3	182 187	0.6276	2345-246; 2356-245	2.324	1.666
89	29.00	6:2	128 162	0.6300	234-234; 235-345	0.044	0.035
90	29.19	7:3	183	0.6342	2346-245	0.997	0.715
91	29.45	6:1	167	0.6398	245-345	0.022	0.017
92	29.78	7:3	185	0.6470	23456-25	0.303	0.218
93	30.16	7:3	174 181	0.6552	2345-236; 23456-24	2.091	1.504
94	30.42	7:3	177	0.6609	2356-234	1.042	0.749
95	30.72	6:1 7:3	156 171	0.6674	2345-34; 2346-234	0.422	0.313
96	30.98	8:4	157 202	0.6730	234-345; 2356-2356	0.051	0.034
98	31.16	7:3	173	0.6769	23456-23	0.025	0.018
99	31.51	8:4	201	0.6846	2346-2356	0.270	0.178
100	31.74	7:2	172 204	0.6896	2345-235; 23456-246	0.304	0.218
101	32.08	8:4	192 197	0.6969	23456-35; 2346-2346	0.085	0.056
102	32.22	7:2	180	0.7000	2345-245	3.296	2.364
103	32.46	7:2	193	0.7052	2356-345	0.222	0.159
104	32.77	7:2	191	0.7119	2346-345	0.050	0.036
105	33.13	8:4	200 169	0.7197	23456-236; 345-345	0.324	0.214
106	34.25	7:2	170	0.7441	2345-234	0.597	0.428

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.52	7:2	190	0.7499	23456-34	0.189	0.135
108	35.37	8:3	198	0.7684	23456-235	0.070	0.046
109	35.60	8:3	199	0.7734	2345-2356	2.834	1.870
110	36.13	8:3	196 203	0.7849	2345-2346; 23456-245	2.607	1.719
111	37.28	7:1	189	0.8099	2345-345	0.001	0.001
112	38.82	8:3	195	0.8434	23456-234	0.338	0.223
113	39.34	9:4	208	0.8547	23456-2356	0.221	0.135
114	40.28	9:4	207	0.8751	23456-2346	0.070	0.043
115	41.63	8:2	194	0.9044	2345-2345	0.933	0.615
116	42.48	8:2	205	0.9229	23456-345	0.060	0.040
117	47.55	9:3	206	1.033	23456-2345	0.370	0.226
118	53.55	10:4	209	1.163	23456-23456	0.001	0.000

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 114 ng/mL

Total Nanomoles = 0.403

Average Molecular Weight = 283.5

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

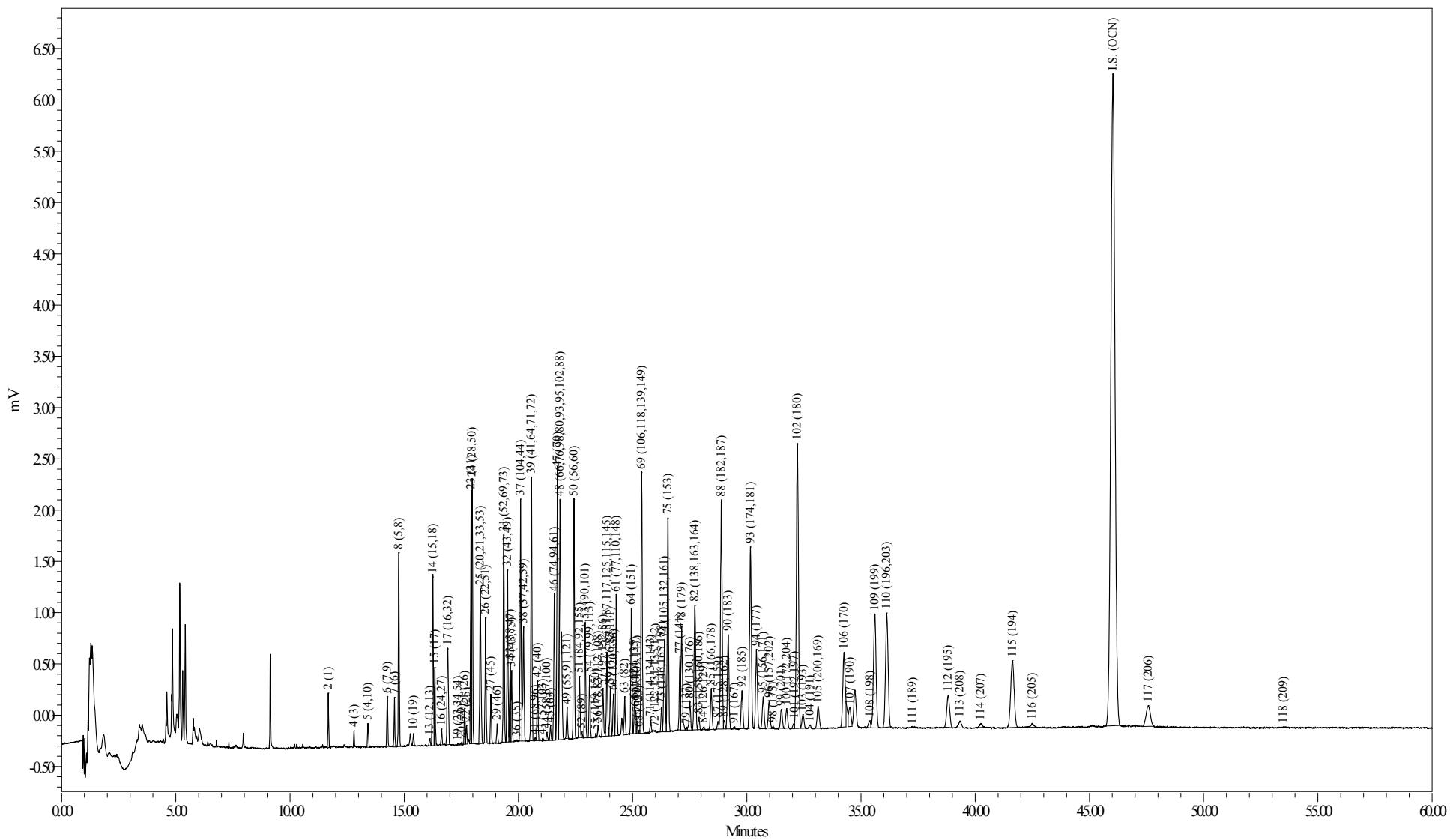
⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.pacelabs.com



Sample Name:
Sample ID:
Date Acquired:

CCCS0825B
CCC Std 122 ng/mL
8/25/2015 9:45:09 PM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1
1
CSGB LLIX 073115
GC24-1221-12 [m]

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 21:45:09
 Lab Sample ID: CCCS0825B
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1221-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
Mono	10.44	15.66	A1221	2/001	7.7892	38.9	31.8
Di	12.21	15.41	A1242	23+24/31+28	5.7777	28.9	23.6
Tri	17.38	19.08	A1254SED	61/100	1.5221	7.61	
Tetra	21.93	21.31	A1254BIO	69+75+82/149+153+138	5.9653		24.4
Penta	8.56	7.37	A1260	102/180	3.8327	19.2	15.7
Hexa	7.65	6.05	A1268	115/194	1.0914	5.45	4.46
Hepta	13.59	9.74					
Octa	7.55	4.97					
Nona	0.68	0.42					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.60

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.74

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: CCC Std 122 ng/mL

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/25/2015 21:45:09

Lab Sample ID: CCCS0825B

LRF ID: CCC Std 122 ng/mL

Lab File ID: GC24-1221-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.68	188.7	999	7.79	41.3			
3	12.70	188.7		-	-			
4	12.80	188.7	332	4.41	23.4			
5	13.41	223.1	677	2.23	10.0			
6	14.26	223.1	1431	0.702	3.15			
7	14.57	223.1	1204	1.19	5.33			
8	14.76	223.1	4890	9.25	41.5			
9	15.31	223.1		-	-			
10	15.40	257.5	306	0.196	0.761			
11	15.86	257.5		-	-			
12	15.92	223.1		-	-			
13	16.12	223.1	252	0.187	0.838			
14	16.25	249.0	4908	2.82	11.3			
15	16.34	257.5	2118	2.65	10.3			
16	16.64	257.5	427	0.179	0.695			
17	16.90	257.5	3921	2.78	10.8			
19	17.35	267.9	38	0.0225	0.0841			
20	17.52	257.5	66	0.0359	0.140			
21	17.65	257.5	966	0.528	2.05			
22	17.73	257.5	493	0.217	0.843			
23	17.93	257.5	6430	2.79	10.8			
24	17.97	257.5	7460	2.99	11.6			
25	18.33	259.5	5516	2.84	11.0			
26	18.56	258.7	3493	1.94	7.50			
27	18.79	292.0	1402	0.695	2.38			
28	18.92	257.5		-	-			
29	19.07	292.0	582	0.328	1.12			
30	19.18	257.5		-	-			
31	19.35	292.0	6250	3.88	13.3			
32	19.52	292.0	5107	1.62	5.54			
33	19.64	292.0	2378	0.508	1.74			
34	19.70	292.0	2105	0.689	2.36			
35	19.84	292.0		-	-			
36	19.93	257.5	25	0.0200	0.0778			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.09	292.0	7499	3.12	10.7			
38	20.22	272.4	4123	2.14	7.86			
39	20.57	292.0	8227	2.70	9.24			
41	20.73	326.4	89	0.0469	0.144			
42	20.84	292.0	1815	0.738	2.53			
43	21.05	298.9	91	0.0355	0.119			
44	21.25	298.9	292	0.0874	0.292			
45	21.40	292.0	462	0.139	0.476			
46	21.57	292.0	4529	0.995	3.41			
47	21.71	292.0	8513	2.34	8.00			
48	21.82	293.5	11102	4.57	15.6			
49	22.13	324.7	935	0.365	1.12			
50	22.43	292.0	7482	2.23	7.65			
51	22.68	326.4	2062	1.51	4.63			
52	22.78	326.4	161	0.0739	0.226			
53	22.92	326.4	3788	1.23	3.78			
54	23.12	326.4	1991	0.427	1.31			
55	23.39	326.4	95	0.0153	0.0469			
56	23.49	326.4	351	0.145	0.445			
57	23.70	326.4	1666	0.438	1.34			
58	23.88	326.4	2949	0.889	2.72			
59	24.03	326.4	1611	0.405	1.24			
60	24.17	360.9	1603	0.482	1.34			
61	24.28	326.4	4454	1.52	4.66			
62	24.56	360.9	-	-	-			
63	24.65	326.4	1275	0.358	1.10			
64	24.95	360.9	3996	1.22	3.39			
65	25.08	350.5	1060	0.185	0.526			
66	25.14	360.9	751	0.428	1.19			
67	25.18	336.8	270	0.0890	0.264			
68	25.29	326.4	84	0.0259	0.0794			
69	25.39	337.5	9622	2.68	7.93			
70	25.51	360.9	-	-	-			
71	25.79	347.8	438	0.137	0.393			
72	25.99	336.8	44	0.00949	0.0282			
73	26.27	360.9	819	0.219	0.607			
74	26.40	347.8	4181	0.875	2.52			
75	26.55	360.9	7973	1.80	4.97			
76	26.65	360.9	-	-	-			
77	27.07	360.9	2632	1.01	2.79			
78	27.15	395.3	4392	1.33	3.38			
79	27.36	360.9	77	0.0537	0.149			
80	27.51	360.9	1266	0.190	0.527			
82	27.73	360.9	6092	1.49	4.14			
83	27.90	360.9	490	0.117	0.325			
84	28.12	360.9	91	0.00656	0.0182			
85	28.45	395.3	1816	0.850	2.15			
87	28.74	395.3	294	0.149	0.376			
88	28.88	395.3	10800	2.70	6.84			
89	29.00	360.9	367	0.0653	0.181			
90	29.18	395.3	4367	1.15	2.90			
91	29.45	360.9	86	0.0230	0.0637			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.79	394.3	1864	0.345	0.875			
93	30.16	394.3	9399	2.44	6.18			
94	30.42	394.3	4054	1.20	3.05			
95	30.71	382.2	1700	0.490	1.28			
96	30.98	429.8	1462	0.0572	0.133			
98	31.14	395.3	93	0.0216	0.0546			
99	31.52	429.8	1043	0.323	0.751			
100	31.74	395.3	1079	0.345	0.872			
101	32.09	429.8	228	0.0880	0.205			
102	32.21	395.3	17552	3.83	9.70			
103	32.45	395.3	833	0.251	0.634			
104	32.77	395.3	118	0.0376	0.0951			
105	33.12	429.8	1390	0.375	0.873			
106	34.25	395.3	5122	0.690	1.75			
107	34.51	395.3	1293	0.218	0.552			
108	35.39	429.8	414	0.0929	0.216			
109	35.61	429.8	8822	3.36	7.81			
110	36.13	429.8	8745	3.00	6.98			
111	37.27	395.3	7	0.00179	0.00452			
112	38.81	429.8	2773	0.365	0.850			
113	39.33	464.2	620	0.267	0.575			
114	40.24	464.2	333	0.0680	0.146			
115	41.63	429.8	6910	1.09	2.54			
116	42.49	429.8	337	0.0710	0.165			
117	47.57	464.2	2632	0.461	0.993			
118	53.50	498.6	16	0.00220	0.00442			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 282.9

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 80487.1

Pace Analytical Services, Inc.
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: CCC Std 122 ng/mL
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 21:45:09
 Lab Sample ID: CCCS0825B
 LRF ID: CCC Std 122 ng/mL
 Lab File ID: GC24-1221-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001	0.2537	2	6.669	10.000
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003	0.2781	4	3.774	5.659
5	13.41	2:2	004 010	0.2913	2-2; 26	1.912	2.425
6	14.26	2:1	007 009	0.3098	24; 25	0.601	0.763
7	14.57	2:1	006	0.3165	2-3	1.019	1.292
8	14.76	2:1	005 008	0.3207	23; 2-4	7.922	10.046
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.168	0.184
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.12	2:0	012 013	0.3502	34; 3-4	0.160	0.203
14	16.25	2:0 3:2	015 018	0.3530	4-4; 25-2	2.417	2.746
15	16.34	3:2	017	0.3550	24-2	2.266	2.490
16	16.64	3:2	024 027	0.3615	236; 26-3	0.153	0.168
17	16.90	3:2	016 032	0.3672	23-2; 26-4	2.382	2.618
19	17.35	3:1 4:4	023 034 054	0.3769	235; 35-2; 26-26	0.019	0.020
20	17.52	3:1	029	0.3806	245	0.031	0.034
21	17.65	3:1	026	0.3834	25-3	0.452	0.497
22	17.73	3:1	025	0.3852	24-3	0.186	0.204
23	17.93	3:1	031	0.3895	25-4	2.389	2.624
24	17.97	3:1 4:3	028 050	0.3904	24-4; 246-2	2.558	2.811
25	18.33	3:1 4:3	020 021 033 053	0.3982	23-3; 234; 34-2; 25-26	2.435	2.655
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	1.661	1.817
27	18.79	4:3	045	0.4082	236-2	0.595	0.576
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	0.281	0.272
30	19.18	3:0	039		35-4	-	-
31	19.35	4:2	052 069 073	0.4204	25-25; 246-3; 26-35	3.325	3.222
32	19.52	4:2	043 049	0.4241	235-2; 24-25	1.385	1.342
33	19.64	4:2	038 047	0.4267	345; 24-24	0.435	0.421
34	19.70	4:2	048 075	0.4280	245-2; 246-4	0.590	0.572
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.93	3:0	035	0.4330	34-3	0.017	0.019
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	2.673	2.590
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	1.833	1.904
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	2.309	2.237

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
41	20.73	5:4	068 096	0.4504	24-35; 236-26	0.040	0.035
42	20.84	4:2	040	0.4527	23-23	0.632	0.612
43	21.05	4:1 5:3	057 103	0.4573	235-3; 246-25	0.030	0.029
44	21.25	4:1 5:3	058 067 100	0.4617	23-35; 245-3; 246-24	0.075	0.071
45	21.40	4:1	063	0.4649	235-4	0.119	0.115
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	0.852	0.825
47	21.71	4:1	070	0.4716	25-34	2.000	1.938
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4740	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.913	3.772
49	22.13	4:1 5:3	055 091 121	0.4808	234-3; 236-24; 246-35	0.312	0.272
50	22.43	4:1	056 060	0.4873	23-34; 234-4	1.913	1.854
51	22.68	5:3 6:4	084 092 155	0.4927	236-23; 235-25; 246-246	1.294	1.121
52	22.78	5:3	089	0.4949	234-26	0.063	0.055
53	22.92	5:2	090 101	0.4979	235-24; 245-25	1.056	0.916
54	23.12	5:2	079 099 113	0.5023	34-35; 245-24; 236-35	0.365	0.317
55	23.39	5:2 6:4	119 150	0.5081	246-34; 236-246	0.013	0.011
56	23.49	5:2	078 083 112 108	0.5103	345-3; 235-23; 2356-3; 2346-3	0.124	0.108
57	23.70	5:2 6:4	097 152 086	0.5149	245-23; 2356-26; 2345-2	0.375	0.325
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.761	0.660
59	24.03	5:2	116 085 111	0.5221	23456; 234-24; 235-35	0.347	0.300
60	24.17	6:4	120 136	0.5251	245-35; 236-236	0.413	0.323
61	24.28	5:2	077 110 148	0.5275	34-34; 236-34; 235-246	1.303	1.130
62	24.56	6:3	154		245-246	-	-
63	24.65	5:2	082	0.5355	234-23	0.306	0.266
64	24.95	6:3	151	0.5420	2356-25	1.049	0.822
65	25.08	5:1 6:3	124 135	0.5449	345-25; 235-236	0.158	0.128
66	25.14	6:3	144	0.5462	2346-25	0.366	0.287
67	25.18	5:1 6:3	107 109 147	0.5470	234-35; 235-34; 2356-24	0.076	0.064
68	25.29	5:1	123	0.5494	345-24	0.022	0.019
69	25.39	5:1 6:3	106 118 139 149	0.5516	2345-3; 245-34; 2346-24; 236-245	2.291	1.920
70	25.51	6:3	140		234-246	-	-
71	25.79	5:1 6:3	114 134 143	0.5603	2345-4; 2356-23; 2345-26	0.117	0.095
72	25.99	5:1 6:3	122 131 133 142	0.5646	345-23; 2346-23; 235-235; 23456-2	0.008	0.007
73	26.27	6:2	146 165 188	0.5707	235-245; 2356-35; 2356-246	0.188	0.147
74	26.40	5:1 6:3	105 132 161	0.5735	234-34; 234-236; 2346-35	0.749	0.610
75	26.55	6:2	153	0.5768	245-245	1.537	1.205
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.07	6:2	141	0.5881	2345-25	0.863	0.677
78	27.15	7:4	179	0.5898	2356-236	1.143	0.818
79	27.36	6:2	137	0.5944	2345-24	0.046	0.036
80	27.51	6:2 7:4	130 176	0.5977	234-235; 2346-236	0.163	0.128
82	27.73	6:2	138 163 164	0.6024	234-245; 2356-34; 236-345	1.280	1.003
83	27.90	6:2	158 160 186	0.6061	2346-34; 23456-3; 23456-26	0.100	0.079
84	28.12	6:2	126 129	0.6109	345-34; 2345-23	0.006	0.004
85	28.45	7:3	166 178	0.6181	23456-4; 2356-235	0.727	0.521
87	28.74	7:3	175 159	0.6244	2346-235; 2345-35	0.127	0.091
88	28.88	7:3	182 187	0.6274	2345-246; 2356-245	2.314	1.656
89	29.00	6:2	128 162	0.6300	234-234; 235-345	0.056	0.044
90	29.18	7:3	183	0.6339	2346-245	0.983	0.703
91	29.45	6:1	167	0.6398	245-345	0.020	0.015
92	29.79	7:3	185	0.6472	23456-25	0.296	0.212
93	30.16	7:3	174 181	0.6552	2345-236; 23456-24	2.087	1.497
94	30.42	7:3	177	0.6609	2356-234	1.028	0.738
95	30.71	6:1 7:3	156 171	0.6672	2345-34; 2346-234	0.419	0.310
96	30.98	8:4	157 202	0.6730	234-345; 2356-2356	0.049	0.032
98	31.14	7:3	173	0.6765	23456-23	0.018	0.013
99	31.52	8:4	201	0.6848	2346-2356	0.276	0.182
100	31.74	7:2	172 204	0.6896	2345-235; 23456-246	0.295	0.211
101	32.09	8:4	192 197	0.6972	23456-35; 2346-2346	0.075	0.050
102	32.21	7:2	180	0.6998	2345-245	3.282	2.349
103	32.45	7:2	193	0.7050	2356-345	0.215	0.154
104	32.77	7:2	191	0.7119	2346-345	0.032	0.023
105	33.12	8:4	200 169	0.7195	23456-236; 345-345	0.321	0.211
106	34.25	7:2	170	0.7441	2345-234	0.591	0.423

DB-1 Peak ¹ Number	Retention Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
107	34.51	7:2	190	0.7497	23456-34	0.187	0.134
108	35.39	8:3	198	0.7688	23456-235	0.080	0.052
109	35.61	8:3	199	0.7736	2345-2356	2.873	1.891
110	36.13	8:3	196 203	0.7849	2345-2346; 23456-245	2.568	1.691
111	37.27	7:1	189	0.8097	2345-345	0.002	0.001
112	38.81	8:3	195	0.8431	23456-234	0.313	0.206
113	39.33	9:4	208	0.8544	23456-2356	0.229	0.139
114	40.24	9:4	207	0.8742	23456-2346	0.058	0.035
115	41.63	8:2	194	0.9044	2345-2345	0.935	0.615
116	42.49	8:2	205	0.9231	23456-345	0.061	0.040
117	47.57	9:3	206	1.033	23456-2345	0.395	0.240
118	53.50	10:4	209	1.162	23456-23456	0.002	0.001

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 282.9

Number of Calibrated Peaks Found = 102

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77, 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169



Sample Name: CCCS0822A Sample Amount: 1
Sample ID: CCC Std 122 ng/mL Dilution: 1
Date Acquired: 08/22/2015 19:37:57 Extract Volume: 1
Project Name: GC24_Jan_2015 Date Processed: 08/27/2015 05:46:49
Sample Set Name: GC24_082215 User Name: Angela Racine
Processing Method: CSGB_LL1X_073115 Current Time: 15:33:36
Run Time: 60 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC24-1219-4 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	966	8.305	8.305
2	4 (3)	12.80	bb	315	4.617	4.617
3	5 (4,10)	13.41	bb	645	2.344	2.344
4	6 (7,9)	14.26	bb	1417	0.767	0.767
5	7 (6)	14.57	bb	1124	1.224	1.224
6	8 (5,8)	14.76	bb	4734	9.877	9.877
7	10 (19)	15.40	bb	289	0.204	0.204
8	13 (12,13)	16.12	bB	235	0.192	0.192
9	14 (15,18)	16.25	BV	4776	3.027	3.027
10	15 (17)	16.34	Vb	2016	2.778	2.778
11	16 (24,27)	16.64	bb	435	0.201	0.201
12	17 (16,32)	16.90	bb	3835	2.999	2.999
13	19 (23,34,54)	17.34	bv	19	0.012	0.012
14	20 (29)	17.53	vv	57	0.034	0.034
15	21 (26)	17.64	vV	957	0.577	0.577
16	22 (25)	17.73	Vv	502	0.244	0.244
17	23 (31)	17.92	VV	6332	3.028	3.028
18	24 (28,50)	17.97	Vb	7152	3.159	3.159
19	25 (20,21,33,53)	18.33	bb	5312	3.019	3.019
20	26 (22,51)	18.56	bb	3413	2.091	2.091
21	27 (45)	18.79	bb	1382	0.755	0.755
22	29 (46)	19.07	bb	549	0.341	0.341
23	31 (52,69,73)	19.35	bV	6116	4.190	4.190
24	32 (43,49)	19.52	VV	4985	1.741	1.741
25	33 (38,47)	19.63	VV	2277	0.536	0.536
26	34 (48,75)	19.70	Vv	2120	0.765	0.765
27	36 (35)	19.92	vb	46	0.041	0.041
28	37 (104,44)	20.09	bV	7278	3.340	3.340
29	38 (37,42,59)	20.22	Vb	4010	2.295	2.295
30	39 (41,64,71,72)	20.57	bB	8002	2.890	2.890
31	41 (68,96)	20.75	Bv	96	0.056	0.056
32	42 (40)	20.83	vb	1753	0.786	0.786
33	43 (57,103)	21.08	bv	99	0.043	0.043

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34	44 (58,67,100)	21.25	vV	283	0.093	0.093
35	45 (63)	21.40	Vb	428	0.142	0.142
36	46 (74,94,61)	21.57	bV	4342	1.052	1.052
37	47 (70)	21.71	VV	8144	2.463	2.463
38	48 (66,76,98,80,93,95,	21.82	VV	10699	4.857	4.857
39	49 (55,91,121)	22.13	Vb	998	0.429	0.429
40	50 (56,60)	22.43	bB	7164	2.357	2.357
41	51 (84,92,155)	22.67	BV	2099	1.696	1.696
42	52 (89)	22.78	VV	201	0.102	0.102
43	53 (90,101)	22.92	VB	3685	1.323	1.323
44	54 (79,99,113)	23.12	Bb	1923	0.454	0.454
45	55 (119,150)	23.39	bv	115	0.020	0.020
46	56 (78,83,112,108)	23.50	vb	360	0.165	0.165
47	57 (97,152,86)	23.71	bV	1625	0.470	0.470
48	58 (81,87,117,125,115)	23.88	VV	2843	0.945	0.945
49	59 (116,85,111)	24.03	VV	1526	0.422	0.422
50	60 (120,136)	24.17	VV	1525	0.505	0.505
51	61 (77,110,148)	24.28	Vb	4295	1.618	1.618
52	63 (82)	24.66	Vb	1200	0.371	0.371
53	64 (151)	24.95	bV	3969	1.342	1.342
54	65 (124,135)	25.09	VV	1052	0.202	0.202
55	66 (144)	25.14	Vv	758	0.476	0.476
56	67 (107,109,147)	25.18	vV	277	0.101	0.101
57	68 (123)	25.29	Vv	89	0.030	0.030
58	69 (106,118,139,149)	25.40	vb	9253	2.836	2.836
59	71 (114,134,143)	25.79	bv	453	0.156	0.156
60	72 (122,131,133,142)	25.99	vb	64	0.015	0.015
61	73 (146,165,188)	26.27	bV	795	0.235	0.235
62	74 (105,132,161)	26.40	VV	3944	0.910	0.910
63	75 (153)	26.54	Vb	7611	1.890	1.890
64	77 (141)	27.07	bV	2610	1.102	1.102
65	78 (179)	27.15	Vb	4029	1.349	1.349
66	79 (137)	27.35	bv	69	0.053	0.053
67	80 (130,176)	27.51	vb	1231	0.204	0.204
68	82 (138,163,164)	27.72	bV	5765	1.559	1.559
69	83 (158,160,186)	27.91	Vb	494	0.131	0.131
70	84 (126,129)	28.11	bb	89	0.007	0.007
71	85 (166,178)	28.44	bb	1712	0.883	0.883
72	87 (175,159)	28.75	bV	327	0.181	0.181
73	88 (182,187)	28.88	VV	10466	2.887	2.887
74	89 (128,162)	29.00	VV	281	0.055	0.055
75	90 (183)	29.18	Vb	4173	1.209	1.209
76	91 (167)	29.42	bb	74	0.022	0.022
77	92 (185)	29.79	bb	1812	0.370	0.370
78	93 (174,181)	30.16	bB	9043	2.584	2.584
79	94 (177)	30.42	Bb	3982	1.300	1.300
80	95 (156,171)	30.71	bB	1716	0.544	0.544
81	96 (157,202)	30.98	Bv	1532	0.066	0.066
82	98 (173)	31.13	vb	159	0.041	0.041
83	99 (201)	31.52	bB	1092	0.372	0.372
84	100 (172,204)	31.75	Bb	1024	0.361	0.361

85	101 (192,197)	32.05	bv	253	0.108	0.108
86	102 (180)	32.21	vV	16860	4.058	4.058
87	103 (193)	32.46	Vb	881	0.292	0.292
88	104 (191)	32.75	bb	205	0.071	0.071
89	105 (200,169)	33.12	bb	1414	0.421	0.421
90	106 (170)	34.25	bV	5892	0.873	0.873
91	107 (190)	34.51	VV	1379	0.257	0.257
92	108 (198)	35.36	bv	438	0.108	0.108
93	109 (199)	35.60	vb	8354	3.501	3.501
94	110 (196,203)	36.13	bb	8471	3.202	3.202
95	111 (189)	37.34	bb	74	0.020	0.020
96	112 (195)	38.82	bb	2780	0.404	0.404
97	113 (208)	39.33	bb	594	0.282	0.282
98	114 (207)	40.24	bb	361	0.081	0.081
99	115 (194)	41.63	bb	6661	1.159	1.159
100	116 (205)	42.49	bb	309	0.072	0.072
101	117 (206)	47.58	bb	2578	0.497	0.497
102	118 (209)	53.57	bb	12	0.002	0.002
103	Sum				124.838	124.838



Pace Analytical Services, Inc., 2190 Technology Drive, Schenectady, New York 12308

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Sample Name:	CCCS0822B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	08/23/2015 06:33:41	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	08/27/2015 05:54:11
Sample Set Name:	GC24_082215	User Name:	Angela Racine
Processing Method:	CSGB_LL1X_073115	Current Time:	15:33:37
Run Time:	60 Minutes	Current Date:	9/24/2015
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-1219-14 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	942	8.391	8.391
2	4 (3)	12.80	bb	313	4.746	4.746
3	5 (4,10)	13.41	bb	634	2.390	2.390
4	6 (7,9)	14.26	bb	1351	0.758	0.758
5	7 (6)	14.57	bb	1097	1.239	1.239
6	8 (5,8)	14.76	bb	4533	9.806	9.806
7	10 (19)	15.40	bb	306	0.224	0.224
8	13 (12,13)	16.11	bB	225	0.190	0.190
9	14 (15,18)	16.25	BV	4589	3.016	3.016
10	15 (17)	16.34	Vb	1945	2.778	2.778
11	16 (24,27)	16.64	bb	420	0.201	0.201
12	17 (16,32)	16.90	bb	3669	2.975	2.975
13	19 (23,34,54)	17.35	bv	55	0.037	0.037
14	20 (29)	17.51	vV	81	0.051	0.051
15	21 (26)	17.64	VV	937	0.585	0.585
16	22 (25)	17.73	Vv	471	0.237	0.237
17	23 (31)	17.93	VV	6260	3.105	3.105
18	24 (28,50)	17.97	Vb	6719	3.075	3.075
19	25 (20,21,33,53)	18.33	bb	5107	3.009	3.009
20	26 (22,51)	18.56	bb	3264	2.073	2.073
21	27 (45)	18.79	bb	1342	0.760	0.760
22	29 (46)	19.07	bb	513	0.331	0.331
23	31 (52,69,73)	19.36	bV	5941	4.220	4.220
24	32 (43,49)	19.52	VV	4824	1.747	1.747
25	33 (38,47)	19.64	VV	2180	0.532	0.532
26	34 (48,75)	19.70	Vb	2010	0.752	0.752
27	36 (35)	19.92	bb	52	0.047	0.047
28	37 (104,44)	20.09	bV	7111	3.384	3.384
29	38 (37,42,59)	20.22	Vb	3800	2.255	2.255
30	39 (41,64,71,72)	20.57	bB	7726	2.894	2.894
31	41 (68,96)	20.74	Bv	92	0.056	0.056
32	42 (40)	20.84	vb	1703	0.792	0.792
33	43 (57,103)	21.07	bv	63	0.028	0.028

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Print Date: 9/24/2015

Lims Version : 5.0.8.9

34	44 (58,67,100)	21.25	vX	275	0.094	0.094
35	45 (63)	21.40	XB	415	0.143	0.143
36	46 (74,94,61)	21.57	BV	4174	1.048	1.048
37	47 (70)	21.71	VV	7864	2.466	2.466
38	48 (66,76,98,80,93,95,	21.82	VV	10272	4.834	4.834
39	49 (55,91,121)	22.12	Vb	967	0.431	0.431
40	50 (56,60)	22.43	bb	6805	2.321	2.321
41	51 (84,92,155)	22.68	bV	1975	1.654	1.654
42	52 (89)	22.77	VB	172	0.090	0.090
43	53 (90,101)	22.92	BB	3543	1.319	1.319
44	54 (79,99,113)	23.12	Bb	1852	0.454	0.454
45	55 (119,150)	23.40	bv	87	0.016	0.016
46	56 (78,83,112,108)	23.49	vb	321	0.152	0.152
47	57 (97,152,86)	23.71	bV	1559	0.468	0.468
48	58 (81,87,117,125,115)	23.88	VV	2696	0.929	0.929
49	59 (116,85,111)	24.03	VB	1442	0.414	0.414
50	60 (120,136)	24.16	BV	1420	0.488	0.488
51	61 (77,110,148)	24.28	Vb	4074	1.591	1.591
52	63 (82)	24.66	Vb	1179	0.378	0.378
53	64 (151)	24.95	bV	3819	1.338	1.338
54	65 (124,135)	25.08	VV	1066	0.212	0.212
55	66 (144)	25.14	VV	693	0.451	0.451
56	67 (107,109,147)	25.20	VV	223	0.084	0.084
57	68 (123)	25.33	Vv	101	0.036	0.036
58	69 (106,118,139,149)	25.39	vb	8868	2.818	2.818
59	71 (114,134,143)	25.79	bv	371	0.132	0.132
60	72 (122,131,133,142)	25.99	vb	84	0.021	0.021
61	73 (146,165,188)	26.27	bV	802	0.246	0.246
62	74 (105,132,161)	26.40	VV	3804	0.910	0.910
63	75 (153)	26.54	Vb	7403	1.906	1.906
64	77 (141)	27.07	bV	2412	1.056	1.056
65	78 (179)	27.15	VB	4010	1.392	1.392
66	79 (137)	27.35	bv	29	0.023	0.023
67	80 (130,176)	27.51	vB	1143	0.196	0.196
68	82 (138,163,164)	27.72	BV	5614	1.574	1.574
69	83 (158,160,186)	27.90	Vb	518	0.142	0.142
70	84 (126,129)	28.10	bb	83	0.007	0.007
71	85 (166,178)	28.44	bb	1692	0.904	0.904
72	87 (175,159)	28.73	bV	289	0.167	0.167
73	88 (182,187)	28.88	Vv	10053	2.875	2.875
74	89 (128,162)	29.01	VV	310	0.063	0.063
75	90 (183)	29.18	Vb	4087	1.227	1.227
76	91 (167)	29.45	bb	59	0.018	0.018
77	92 (185)	29.79	bb	1774	0.375	0.375
78	93 (174,181)	30.16	bB	8741	2.590	2.590
79	94 (177)	30.42	Bb	3761	1.273	1.273
80	95 (156,171)	30.71	bB	1583	0.520	0.520
81	96 (157,202)	30.98	Bv	1431	0.064	0.064
82	98 (173)	31.17	vb	121	0.032	0.032
83	99 (201)	31.51	bB	1045	0.369	0.369
84	100 (172,204)	31.74	Bb	1062	0.388	0.388

85	101 (192,197)	32.04	bv	247	0.109	0.109
86	102 (180)	32.21	vV	16117	4.022	4.022
87	103 (193)	32.45	Vv	839	0.288	0.288
88	104 (191)	32.75	vb	176	0.063	0.063
89	105 (200,169)	33.13	bb	1332	0.411	0.411
90	106 (170)	34.25	bv	4831	0.743	0.743
91	107 (190)	34.50	VV	1161	0.224	0.224
92	108 (198)	35.36	bv	495	0.127	0.127
93	109 (199)	35.60	vb	8056	3.500	3.500
94	110 (196,203)	36.13	bb	8141	3.191	3.191
95	111 (189)	37.27	bb	56	0.016	0.016
96	112 (195)	38.81	bb	2594	0.391	0.391
97	113 (208)	39.32	bb	517	0.254	0.254
98	114 (207)	40.25	bb	338	0.079	0.079
99	115 (194)	41.63	bb	6150	1.110	1.110
100	116 (205)	42.50	bb	375	0.090	0.090
101	117 (206)	47.56	bb	2369	0.474	0.474
102	118 (209)	53.51	bb	11	0.002	0.002
103	Sum				124.478	124.478



Sample Name:	CCCS0822C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	08/23/2015 10:55:53	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	08/24/2015 08:48:07
Sample Set Name:	GC24_082215	User Name:	Angela Racine
Processing Method:	CSGB_LL1X_073115	Current Time:	15:33:37
Run Time:	60 Minutes	Current Date:	9/24/2015
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-1219-18 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	946	8.010	8.010
2	4 (3)	12.80	bb	320	4.617	4.617
3	5 (4,10)	13.41	bb	638	2.288	2.288
4	6 (7,9)	14.26	bb	1384	0.738	0.738
5	7 (6)	14.57	bb	1109	1.191	1.191
6	8 (5,8)	14.76	bb	4632	9.525	9.525
7	10 (19)	15.40	bb	305	0.212	0.212
8	13 (12,13)	16.13	bV	267	0.215	0.215
9	14 (15,18)	16.25	VV	4717	2.948	2.948
10	15 (17)	16.34	Vb	2051	2.786	2.786
11	16 (24,27)	16.64	bb	435	0.198	0.198
12	17 (16,32)	16.90	bb	3813	2.940	2.940
13	19 (23,34,54)	17.34	bb	36	0.023	0.023
14	20 (29)	17.52	bV	68	0.041	0.041
15	21 (26)	17.65	vV	950	0.564	0.564
16	22 (25)	17.73	VV	488	0.233	0.233
17	23 (31)	17.93	VV	6418	3.026	3.026
18	24 (28,50)	17.97	Vb	6906	3.005	3.005
19	25 (20,21,33,53)	18.33	bb	5244	2.938	2.938
20	26 (22,51)	18.56	bb	3337	2.015	2.015
21	27 (45)	18.79	bb	1355	0.730	0.730
22	29 (46)	19.07	bb	529	0.324	0.324
23	31 (52,69,73)	19.35	bV	6002	4.053	4.053
24	32 (43,49)	19.52	VV	4922	1.694	1.694
25	33 (38,47)	19.63	VV	2272	0.527	0.527
26	34 (48,75)	19.70	Vv	2059	0.732	0.732
27	36 (35)	19.91	vb	52	0.046	0.046
28	37 (104,44)	20.09	bV	7151	3.235	3.235
29	38 (37,42,59)	20.22	Vb	3939	2.222	2.222
30	39 (41,64,71,72)	20.57	bV	7888	2.809	2.809
31	41 (68,96)	20.73	VV	75	0.043	0.043
32	42 (40)	20.83	Vb	1731	0.765	0.765
33	43 (57,103)	21.08	bV	99	0.042	0.042

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34	44 (58,67,100)	21.24	vV	317	0.103	0.103
35	45 (63)	21.40	VV	459	0.150	0.150
36	46 (74,94,61)	21.57	VV	4355	1.040	1.040
37	47 (70)	21.71	VV	8138	2.426	2.426
38	48 (66,76,98,80,93,95,	21.82	VV	10601	4.743	4.743
39	49 (55,91,121)	22.13	Vb	1003	0.425	0.425
40	50 (56,60)	22.43	bB	7106	2.305	2.305
41	51 (84,92,155)	22.67	BV	2059	1.640	1.640
42	52 (89)	22.78	VV	189	0.094	0.094
43	53 (90,101)	22.92	VV	3662	1.296	1.296
44	54 (79,99,113)	23.12	Vb	1937	0.451	0.451
45	55 (119,150)	23.39	bV	107	0.019	0.019
46	56 (78,83,112,108)	23.50	Vb	350	0.158	0.158
47	57 (97,152,86)	23.70	bV	1615	0.461	0.461
48	58 (81,87,117,125,115)	23.88	VV	2822	0.924	0.924
49	59 (116,85,111)	24.03	VB	1514	0.413	0.413
50	60 (120,136)	24.16	BV	1509	0.493	0.493
51	61 (77,110,148)	24.29	Vb	4251	1.578	1.578
52	63 (82)	24.65	Vb	1182	0.360	0.360
53	64 (151)	24.94	bV	3917	1.305	1.305
54	65 (124,135)	25.08	VV	1026	0.194	0.194
55	66 (144)	25.14	VV	789	0.489	0.489
56	67 (107,109,147)	25.19	VV	239	0.085	0.085
57	68 (123)	25.30	Vv	93	0.031	0.031
58	69 (106,118,139,149)	25.39	vb	9121	2.756	2.756
59	71 (114,134,143)	25.79	bV	345	0.117	0.117
60	72 (122,131,133,142)	25.97	vb	46	0.011	0.011
61	73 (146,165,188)	26.27	bV	749	0.218	0.218
62	74 (105,132,161)	26.40	VV	3903	0.888	0.888
63	75 (153)	26.55	Vb	7527	1.842	1.842
64	77 (141)	27.07	bV	2595	1.080	1.080
65	78 (179)	27.15	VV	4104	1.354	1.354
66	79 (137)	27.36	Vv	103	0.078	0.078
67	80 (130,176)	27.50	vB	1239	0.202	0.202
68	82 (138,163,164)	27.72	BV	5783	1.542	1.542
69	83 (158,160,186)	27.90	Vb	485	0.126	0.126
70	84 (126,129)	28.11	bb	122	0.010	0.010
71	85 (166,178)	28.44	bb	1711	0.870	0.870
72	87 (175,159)	28.74	bV	312	0.171	0.171
73	88 (182,187)	28.88	VV	10340	2.811	2.811
74	89 (128,162)	29.00	VV	287	0.055	0.055
75	90 (183)	29.18	Vb	4161	1.188	1.188
76	91 (167)	29.43	bb	40	0.011	0.011
77	92 (185)	29.78	bb	1793	0.361	0.361
78	93 (174,181)	30.16	bV	9003	2.537	2.537
79	94 (177)	30.42	Vb	3963	1.276	1.276
80	95 (156,171)	30.71	bB	1592	0.498	0.498
81	96 (157,202)	30.97	Bv	1500	0.064	0.064
82	98 (173)	31.14	vb	141	0.036	0.036
83	99 (201)	31.51	bV	1085	0.365	0.365
84	100 (172,204)	31.74	Vb	1097	0.381	0.381

85	101 (192,197)	32.03	bv	195	0.082	0.082
86	102 (180)	32.21	vV	16589	3.936	3.936
87	103 (193)	32.45	Vb	779	0.255	0.255
88	104 (191)	32.77	bb	156	0.054	0.054
89	105 (200,169)	33.12	bb	1332	0.391	0.391
90	106 (170)	34.25	bv	4753	0.696	0.696
91	107 (190)	34.49	VV	1276	0.234	0.234
92	108 (198)	35.36	bv	390	0.095	0.095
93	109 (199)	35.61	vb	8273	3.418	3.418
94	110 (196,203)	36.13	bb	8441	3.146	3.146
95	111 (189)	37.29	bb	90	0.025	0.025
96	112 (195)	38.80	bb	2674	0.383	0.383
97	113 (208)	39.33	bb	525	0.245	0.245
98	114 (207)	40.26	bb	301	0.067	0.067
99	115 (194)	41.62	bb	6550	1.124	1.124
100	116 (205)	42.47	bb	378	0.086	0.086
101	117 (206)	47.58	bb	2357	0.448	0.448
102	118 (209)	53.56	bb	19	0.003	0.003
103	Sum				121.454	121.454



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Sample Name:	CCCS0824C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	08/25/2015 06:27:13	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	08/27/2015 05:51:50
Sample Set Name:	GC24_082415	User Name:	Jared Acker
Processing Method:	CSGB_LL1X_073115	Current Time:	15:33:38
Run Time:	60 Minutes	Current Date:	9/24/2015
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-1220-16 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	986	7.460	7.460
2	4 (3)	12.80	bb	353	4.549	4.549
3	5 (4,10)	13.41	bb	694	2.223	2.223
4	6 (7,9)	14.26	bb	1470	0.701	0.701
5	7 (6)	14.57	bV	1217	1.168	1.168
6	8 (5,8)	14.76	Vb	5007	9.196	9.196
7	10 (19)	15.40	bb	307	0.191	0.191
8	13 (12,13)	16.12	bB	257	0.184	0.184
9	14 (15,18)	16.25	BV	5024	2.804	2.804
10	15 (17)	16.34	Vb	2142	2.599	2.599
11	16 (24,27)	16.64	bb	477	0.194	0.194
12	17 (16,32)	16.90	bb	4014	2.765	2.765
13	19 (23,34,54)	17.33	bb	29	0.016	0.016
14	20 (29)	17.52	bb	68	0.036	0.036
15	21 (26)	17.65	bV	1035	0.549	0.549
16	22 (25)	17.73	VV	529	0.226	0.226
17	23 (31)	17.93	VV	6875	2.896	2.896
18	24 (28,50)	17.97	Vb	7422	2.884	2.884
19	25 (20,21,33,53)	18.33	bb	5658	2.832	2.832
20	26 (22,51)	18.56	bb	3642	1.965	1.965
21	27 (45)	18.79	bb	1454	0.699	0.699
22	29 (46)	19.07	bb	575	0.315	0.315
23	31 (52,69,73)	19.36	bV	6471	3.904	3.904
24	32 (43,49)	19.52	VV	5296	1.629	1.629
25	33 (38,47)	19.64	VV	2440	0.506	0.506
26	34 (48,75)	19.70	Vv	2220	0.706	0.706
27	36 (35)	19.90	vb	71	0.055	0.055
28	37 (104,44)	20.09	bV	7738	3.127	3.127
29	38 (37,42,59)	20.22	Vb	4211	2.123	2.123
30	39 (41,64,71,72)	20.57	bV	8512	2.708	2.708
31	41 (68,96)	20.74	VV	93	0.048	0.048
32	42 (40)	20.83	Vb	1890	0.746	0.746
33	43 (57,103)	21.07	bv	109	0.041	0.041

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Lims Version : 5.0.8.9

34	44 (58,67,100)	21.24	vB	290	0.084	0.084
35	45 (63)	21.40	Bb	424	0.124	0.124
36	46 (74,94,61)	21.57	bV	4581	0.977	0.977
37	47 (70)	21.71	VV	8666	2.308	2.308
38	48 (66,76,98,80,93,95,	21.82	VB	11303	4.516	4.516
39	49 (55,91,121)	22.13	Bb	1020	0.386	0.386
40	50 (56,60)	22.43	bb	7674	2.225	2.225
41	51 (84,92,155)	22.67	bV	2203	1.567	1.567
42	52 (89)	22.77	VB	182	0.081	0.081
43	53 (90,101)	22.92	BV	3915	1.238	1.238
44	54 (79,99,113)	23.12	Vb	2105	0.438	0.438
45	55 (119,150)	23.40	bV	104	0.016	0.016
46	56 (78,83,112,108)	23.49	Vb	406	0.163	0.163
47	57 (97,152,86)	23.71	bV	1771	0.452	0.452
48	58 (81,87,117,125,115)	23.88	VV	3042	0.890	0.890
49	59 (116,85,111)	24.03	VV	1655	0.404	0.404
50	60 (120,136)	24.16	VV	1646	0.480	0.480
51	61 (77,110,148)	24.28	Vb	4536	1.505	1.505
52	63 (82)	24.66	Vb	1285	0.350	0.350
53	64 (151)	24.95	bV	4205	1.252	1.252
54	65 (124,135)	25.09	VV	1206	0.204	0.204
55	66 (144)	25.14	VV	795	0.440	0.440
56	67 (107,109,147)	25.20	VV	261	0.083	0.083
57	68 (123)	25.33	Vv	150	0.045	0.045
58	69 (106,118,139,149)	25.40	vb	9886	2.668	2.668
59	71 (114,134,143)	25.80	bv	452	0.137	0.137
60	72 (122,131,133,142)	25.99	vb	61	0.013	0.013
61	73 (146,165,188)	26.27	bV	859	0.223	0.223
62	74 (105,132,161)	26.39	VV	4236	0.861	0.861
63	75 (153)	26.55	Vb	8075	1.765	1.765
64	77 (141)	27.07	bV	2793	1.039	1.039
65	78 (179)	27.15	Vv	4489	1.324	1.324
66	79 (137)	27.35	vv	84	0.057	0.057
67	80 (130,176)	27.50	vV	1330	0.194	0.194
68	82 (138,163,164)	27.72	VV	6267	1.493	1.493
69	83 (158,160,186)	27.90	Vb	546	0.127	0.127
70	84 (126,129)	28.11	bb	94	0.007	0.007
71	85 (166,178)	28.44	bb	1894	0.861	0.861
72	87 (175,159)	28.73	bV	370	0.181	0.181
73	88 (182,187)	28.88	Vv	11191	2.718	2.718
74	89 (128,162)	29.01	vV	360	0.062	0.062
75	90 (183)	29.18	Vv	4536	1.157	1.157
76	91 (167)	29.47	vb	108	0.028	0.028
77	92 (185)	29.79	bb	1915	0.344	0.344
78	93 (174,181)	30.16	bV	9773	2.460	2.460
79	94 (177)	30.42	Vb	4265	1.227	1.227
80	95 (156,171)	30.72	bB	1755	0.490	0.490
81	96 (157,202)	30.98	Bv	1615	0.061	0.061
82	98 (173)	31.14	vb	187	0.042	0.042
83	99 (201)	31.51	bB	1131	0.340	0.340
84	100 (172,204)	31.74	Bb	1147	0.356	0.356

85	101 (192,197)	32.10	bv	298	0.112	0.112
86	102 (180)	32.22	vV	18011	3.818	3.818
87	103 (193)	32.46	Vb	877	0.256	0.256
88	104 (191)	32.78	bb	232	0.071	0.071
89	105 (200,169)	33.13	bb	1443	0.378	0.378
90	106 (170)	34.25	bv	5341	0.699	0.699
91	107 (190)	34.51	VV	1428	0.234	0.234
92	108 (198)	35.38	bv	460	0.100	0.100
93	109 (199)	35.60	vb	9000	3.323	3.323
94	110 (196,203)	36.13	bb	9199	3.063	3.063
95	111 (189)	37.27	bb	56	0.014	0.014
96	112 (195)	38.82	bb	2977	0.381	0.381
97	113 (208)	39.33	bb	597	0.250	0.250
98	114 (207)	40.24	bb	366	0.072	0.072
99	115 (194)	41.62	bb	7200	1.104	1.104
100	116 (205)	42.50	bb	346	0.071	0.071
101	117 (206)	47.57	bb	2770	0.471	0.471
102	118 (209)	53.57	bb	6	0.001	0.001
103	Sum				116.926	116.926



Sample Name:	CCCS0825A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	08/25/2015 17:23:10	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	08/27/2015 06:16:04
Sample Set Name:	GC24_082515a	User Name:	Jared Acker
Processing Method:	CSGB_LL1X_073115	Current Time:	15:33:39
Run Time:	60 Minutes	Current Date:	9/24/2015
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-1221-8 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	1035	7.440	7.440
2	4 (3)	12.80	bb	351	4.298	4.298
3	5 (4,10)	13.41	bb	672	2.041	2.041
4	6 (7,9)	14.26	bb	1492	0.675	0.675
5	7 (6)	14.57	bv	1278	1.164	1.164
6	8 (5,8)	14.76	vb	5190	9.048	9.048
7	10 (19)	15.40	bb	312	0.184	0.184
8	13 (12,13)	16.11	bV	262	0.179	0.179
9	14 (15,18)	16.25	VV	5162	2.735	2.735
10	15 (17)	16.34	Vb	2175	2.504	2.504
11	16 (24,27)	16.64	bb	485	0.187	0.187
12	17 (16,32)	16.90	bb	4149	2.713	2.713
13	19 (23,34,54)	17.34	bv	28	0.015	0.015
14	20 (29)	17.51	vB	59	0.029	0.029
15	21 (26)	17.65	BV	1051	0.529	0.529
16	22 (25)	17.73	VV	546	0.222	0.222
17	23 (31)	17.93	VV	6834	2.732	2.732
18	24 (28,50)	17.97	Vb	7923	2.924	2.924
19	25 (20,21,33,53)	18.33	bb	5787	2.749	2.749
20	26 (22,51)	18.56	bb	3718	1.903	1.903
21	27 (45)	18.79	bb	1484	0.677	0.677
22	29 (46)	19.07	bb	613	0.319	0.319
23	31 (52,69,73)	19.36	bV	6661	3.814	3.814
24	32 (43,49)	19.52	VV	5414	1.580	1.580
25	33 (38,47)	19.63	VV	2517	0.495	0.495
26	34 (48,75)	19.70	Vb	2205	0.665	0.665
27	36 (35)	19.91	bb	25	0.018	0.018
28	37 (104,44)	20.09	bV	7942	3.046	3.046
29	38 (37,42,59)	20.22	Vb	4409	2.110	2.110
30	39 (41,64,71,72)	20.57	bV	8771	2.649	2.649
31	41 (68,96)	20.75	Vv	104	0.051	0.051
32	42 (40)	20.83	vb	1931	0.723	0.723
33	43 (57,103)	21.04	bb	81	0.029	0.029

CCCS0825A

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34	44 (58,67,100)	21.25	BV	291	0.080	0.080
35	45 (63)	21.41	VB	463	0.128	0.128
36	46 (74,94,61)	21.57	BV	4824	0.976	0.976
37	47 (70)	21.71	VV	9031	2.283	2.283
38	48 (66,76,98,80,93,95,	21.82	VV	11824	4.484	4.484
39	49 (55,91,121)	22.13	Vb	1100	0.396	0.396
40	50 (56,60)	22.43	bb	7980	2.197	2.197
41	51 (84,92,155)	22.67	bV	2253	1.522	1.522
42	52 (89)	22.78	VB	195	0.082	0.082
43	53 (90,101)	22.92	BV	4043	1.213	1.213
44	54 (79,99,113)	23.12	Vb	2158	0.426	0.426
45	55 (119,150)	23.40	bv	87	0.013	0.013
46	56 (78,83,112,108)	23.49	vb	371	0.142	0.142
47	57 (97,152,86)	23.71	bV	1807	0.437	0.437
48	58 (81,87,117,125,115)	23.88	VV	3152	0.875	0.875
49	59 (116,85,111)	24.03	VV	1725	0.399	0.399
50	60 (120,136)	24.16	VV	1728	0.479	0.479
51	61 (77,110,148)	24.28	Vb	4730	1.489	1.489
52	63 (82)	24.66	Vb	1310	0.339	0.339
53	64 (151)	24.95	bV	4350	1.229	1.229
54	65 (124,135)	25.08	VV	1238	0.199	0.199
55	66 (144)	25.14	VV	904	0.475	0.475
56	67 (107,109,147)	25.21	VV	196	0.059	0.059
57	68 (123)	25.29	VV	90	0.026	0.026
58	69 (106,118,139,149)	25.40	Vb	10257	2.628	2.628
59	71 (114,134,143)	25.79	bv	480	0.138	0.138
60	72 (122,131,133,142)	25.97	vb	68	0.013	0.013
61	73 (146,165,188)	26.27	bV	869	0.214	0.214
62	74 (105,132,161)	26.40	VV	4428	0.854	0.854
63	75 (153)	26.55	Vb	8382	1.739	1.739
64	77 (141)	27.07	bV	2887	1.020	1.020
65	78 (179)	27.15	Vv	4605	1.290	1.290
66	79 (137)	27.35	vv	93	0.059	0.059
67	80 (130,176)	27.51	vB	1389	0.192	0.192
68	82 (138,163,164)	27.72	BV	6522	1.475	1.475
69	83 (158,160,186)	27.90	Vv	590	0.130	0.130
70	84 (126,129)	28.11	vb	132	0.009	0.009
71	85 (166,178)	28.45	bb	1912	0.824	0.824
72	87 (175,159)	28.74	bV	341	0.158	0.158
73	88 (182,187)	28.89	Vv	11506	2.653	2.653
74	89 (128,162)	29.00	vv	306	0.050	0.050
75	90 (183)	29.19	Vb	4699	1.138	1.138
76	91 (167)	29.45	bb	102	0.025	0.025
77	92 (185)	29.78	bb	2026	0.346	0.346
78	93 (174,181)	30.16	bB	9991	2.387	2.387
79	94 (177)	30.42	Bb	4355	1.189	1.189
80	95 (156,171)	30.72	bb	1814	0.481	0.481
81	96 (157,202)	30.98	bv	1620	0.058	0.058
82	98 (173)	31.16	vb	136	0.029	0.029
83	99 (201)	31.51	bV	1082	0.308	0.308
84	100 (172,204)	31.74	Vb	1178	0.347	0.347

85	101 (192,197)	32.08	bv	273	0.098	0.098
86	102 (180)	32.22	vV	18699	3.762	3.762
87	103 (193)	32.46	Vb	913	0.253	0.253
88	104 (191)	32.77	bb	197	0.057	0.057
89	105 (200,169)	33.13	bb	1488	0.370	0.370
90	106 (170)	34.25	bv	5487	0.682	0.682
91	107 (190)	34.52	VV	1387	0.215	0.215
92	108 (198)	35.37	bv	388	0.080	0.080
93	109 (199)	35.60	vb	9231	3.236	3.236
94	110 (196,203)	36.13	bb	9415	2.976	2.976
95	111 (189)	37.28	bb	4	0.001	0.001
96	112 (195)	38.82	bb	3171	0.385	0.385
97	113 (208)	39.34	bb	636	0.252	0.252
98	114 (207)	40.28	bb	426	0.080	0.080
99	115 (194)	41.63	bb	7317	1.065	1.065
100	116 (205)	42.48	bv	355	0.069	0.069
101	117 (206)	47.55	bb	2621	0.423	0.423
102	118 (209)	53.55	bb	7	0.001	0.001
103	Sum				114.157	114.157



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Sample Name:	CCCS0825B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	08/25/2015 21:45:09	Extract Volume:	1
Project Name:	GC24_Jan_2015	Date Processed:	08/27/2015 06:14:28
Sample Set Name:	GC24_082515a	User Name:	Jared Acker
Processing Method:	CSGB_LL1X_073115	Current Time:	15:33:40
Run Time:	60 Minutes	Current Date:	9/24/2015
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-1221-12 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.68	bb	999	7.789	7.789
2	4 (3)	12.80	bb	332	4.408	4.408
3	5 (4,10)	13.41	bb	677	2.233	2.233
4	6 (7,9)	14.26	bb	1431	0.702	0.702
5	7 (6)	14.57	bB	1204	1.190	1.190
6	8 (5,8)	14.76	Bb	4890	9.252	9.252
7	10 (19)	15.40	bb	306	0.196	0.196
8	13 (12,13)	16.12	bV	252	0.187	0.187
9	14 (15,18)	16.25	VV	4908	2.822	2.822
10	15 (17)	16.34	Vb	2118	2.647	2.647
11	16 (24,27)	16.64	bb	427	0.179	0.179
12	17 (16,32)	16.90	bb	3921	2.783	2.783
13	19 (23,34,54)	17.35	bb	38	0.023	0.023
14	20 (29)	17.52	bb	66	0.036	0.036
15	21 (26)	17.65	bV	966	0.528	0.528
16	22 (25)	17.73	VV	493	0.217	0.217
17	23 (31)	17.93	VV	6430	2.790	2.790
18	24 (28,50)	17.97	Vb	7460	2.988	2.988
19	25 (20,21,33,53)	18.33	bb	5516	2.844	2.844
20	26 (22,51)	18.56	bb	3493	1.940	1.940
21	27 (45)	18.79	bb	1402	0.695	0.695
22	29 (46)	19.07	bb	582	0.328	0.328
23	31 (52,69,73)	19.35	bV	6250	3.884	3.884
24	32 (43,49)	19.52	VV	5107	1.618	1.618
25	33 (38,47)	19.64	VV	2378	0.508	0.508
26	34 (48,75)	19.70	Vb	2105	0.689	0.689
27	36 (35)	19.93	bb	25	0.020	0.020
28	37 (104,44)	20.09	bV	7499	3.122	3.122
29	38 (37,42,59)	20.22	Vb	4123	2.141	2.141
30	39 (41,64,71,72)	20.57	bB	8227	2.697	2.697
31	41 (68,96)	20.73	Bv	89	0.047	0.047
32	42 (40)	20.84	vb	1815	0.738	0.738
33	43 (57,103)	21.05	bb	91	0.036	0.036

CCCS0825B

1 of 3

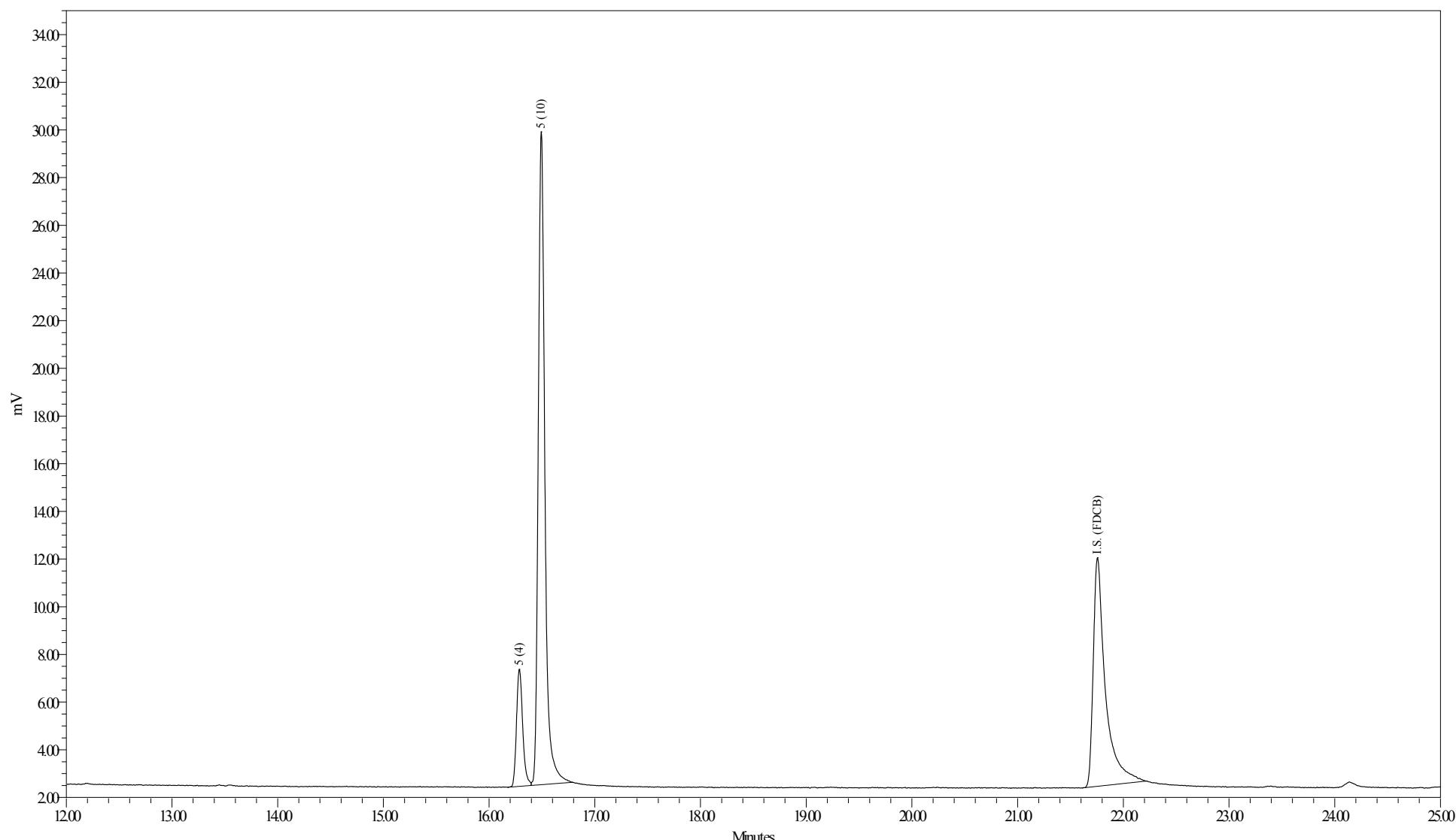
Print Date: 9/24/2015

Lims Version : 5.0.8.9

34	44 (58,67,100)	21.25	bV	292	0.087	0.087
35	45 (63)	21.40	VB	462	0.139	0.139
36	46 (74,94,61)	21.57	BV	4529	0.995	0.995
37	47 (70)	21.71	VV	8513	2.336	2.336
38	48 (66,76,98,80,93,95,	21.82	Vb	11102	4.570	4.570
39	49 (55,91,121)	22.13	bb	935	0.365	0.365
40	50 (56,60)	22.43	bb	7482	2.235	2.235
41	51 (84,92,155)	22.68	bV	2062	1.511	1.511
42	52 (89)	22.78	VB	161	0.074	0.074
43	53 (90,101)	22.92	Bb	3788	1.234	1.234
44	54 (79,99,113)	23.12	bb	1991	0.427	0.427
45	55 (119,150)	23.39	vV	95	0.015	0.015
46	56 (78,83,112,108)	23.49	Vb	351	0.145	0.145
47	57 (97,152,86)	23.70	bV	1666	0.438	0.438
48	58 (81,87,117,125,115)	23.88	VV	2949	0.889	0.889
49	59 (116,85,111)	24.03	VV	1611	0.405	0.405
50	60 (120,136)	24.17	VV	1603	0.482	0.482
51	61 (77,110,148)	24.28	Vb	4454	1.522	1.522
52	63 (82)	24.65	Vb	1275	0.358	0.358
53	64 (151)	24.95	bV	3996	1.225	1.225
54	65 (124,135)	25.08	VV	1060	0.185	0.185
55	66 (144)	25.14	Vv	751	0.428	0.428
56	67 (107,109,147)	25.18	vV	270	0.089	0.089
57	68 (123)	25.29	Vv	84	0.026	0.026
58	69 (106,118,139,149)	25.39	vb	9622	2.675	2.675
59	71 (114,134,143)	25.79	bb	438	0.137	0.137
60	72 (122,131,133,142)	25.99	bb	44	0.009	0.009
61	73 (146,165,188)	26.27	bV	819	0.219	0.219
62	74 (105,132,161)	26.40	VV	4181	0.875	0.875
63	75 (153)	26.55	Vb	7973	1.795	1.795
64	77 (141)	27.07	bV	2632	1.008	1.008
65	78 (179)	27.15	VB	4392	1.334	1.334
66	79 (137)	27.36	Bv	77	0.054	0.054
67	80 (130,176)	27.51	vB	1266	0.190	0.190
68	82 (138,163,164)	27.73	BV	6092	1.495	1.495
69	83 (158,160,186)	27.90	Vb	490	0.117	0.117
70	84 (126,129)	28.12	bb	91	0.007	0.007
71	85 (166,178)	28.45	bb	1816	0.850	0.850
72	87 (175,159)	28.74	bV	294	0.149	0.149
73	88 (182,187)	28.88	Vv	10800	2.702	2.702
74	89 (128,162)	29.00	vV	367	0.065	0.065
75	90 (183)	29.18	Vb	4367	1.148	1.148
76	91 (167)	29.45	bb	86	0.023	0.023
77	92 (185)	29.79	bb	1864	0.345	0.345
78	93 (174,181)	30.16	bb	9399	2.437	2.437
79	94 (177)	30.42	bb	4054	1.201	1.201
80	95 (156,171)	30.71	bB	1700	0.490	0.490
81	96 (157,202)	30.98	bv	1462	0.057	0.057
82	98 (173)	31.14	vb	93	0.022	0.022
83	99 (201)	31.52	bB	1043	0.323	0.323
84	100 (172,204)	31.74	Bb	1079	0.345	0.345

85	101 (192,197)	32.09	bv	228	0.088	0.088
86	102 (180)	32.21	vV	17552	3.833	3.833
87	103 (193)	32.45	Vb	833	0.251	0.251
88	104 (191)	32.77	bb	118	0.038	0.038
89	105 (200,169)	33.12	bb	1390	0.375	0.375
90	106 (170)	34.25	bv	5122	0.690	0.690
91	107 (190)	34.51	VV	1293	0.218	0.218
92	108 (198)	35.39	bV	414	0.093	0.093
93	109 (199)	35.61	Vb	8822	3.356	3.356
94	110 (196,203)	36.13	bb	8745	2.999	2.999
95	111 (189)	37.27	bb	7	0.002	0.002
96	112 (195)	38.81	bb	2773	0.365	0.365
97	113 (208)	39.33	bb	620	0.267	0.267
98	114 (207)	40.24	bb	333	0.068	0.068
99	115 (194)	41.63	bb	6910	1.091	1.091
100	116 (205)	42.49	bb	337	0.071	0.071
101	117 (206)	47.57	bb	2632	0.461	0.461
102	118 (209)	53.50	bb	16	0.002	0.002
103	Sum				116.794	116.794

STANDARDS RAW DATA (GC30)

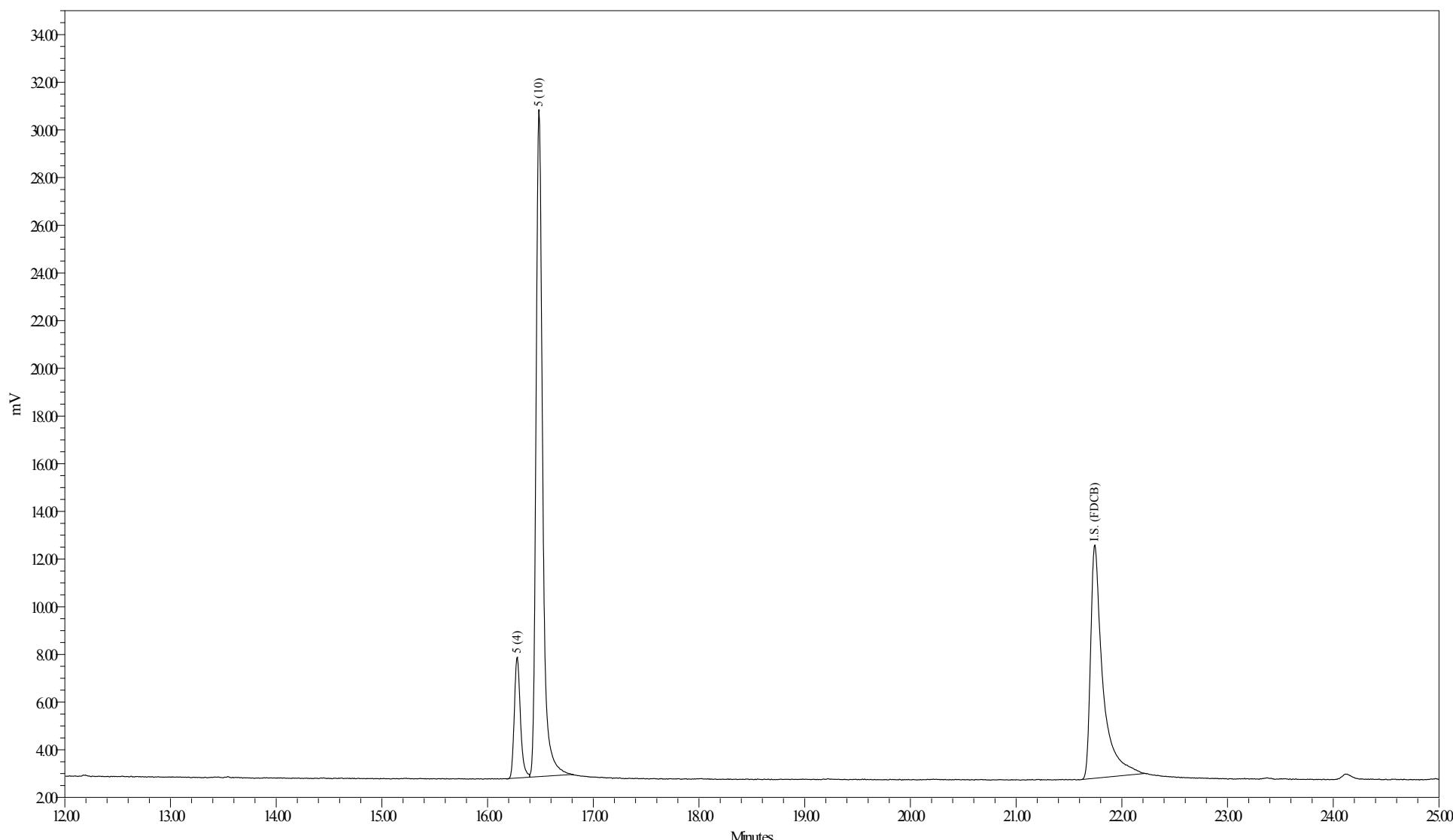


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Sample ID:
Date Acquired:

CCCS0822AA
CCCS Std 25.0 ng/mL
8/22/2015 6:46:21 PM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1.0000
1
GC30_410_1X_052015
GC30-482-4 [m]



Sample Name:
Sample ID:
Date Acquired:

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CCCS Std 25.0 ng/mL
8/23/2015 2:39:59 AM EDT

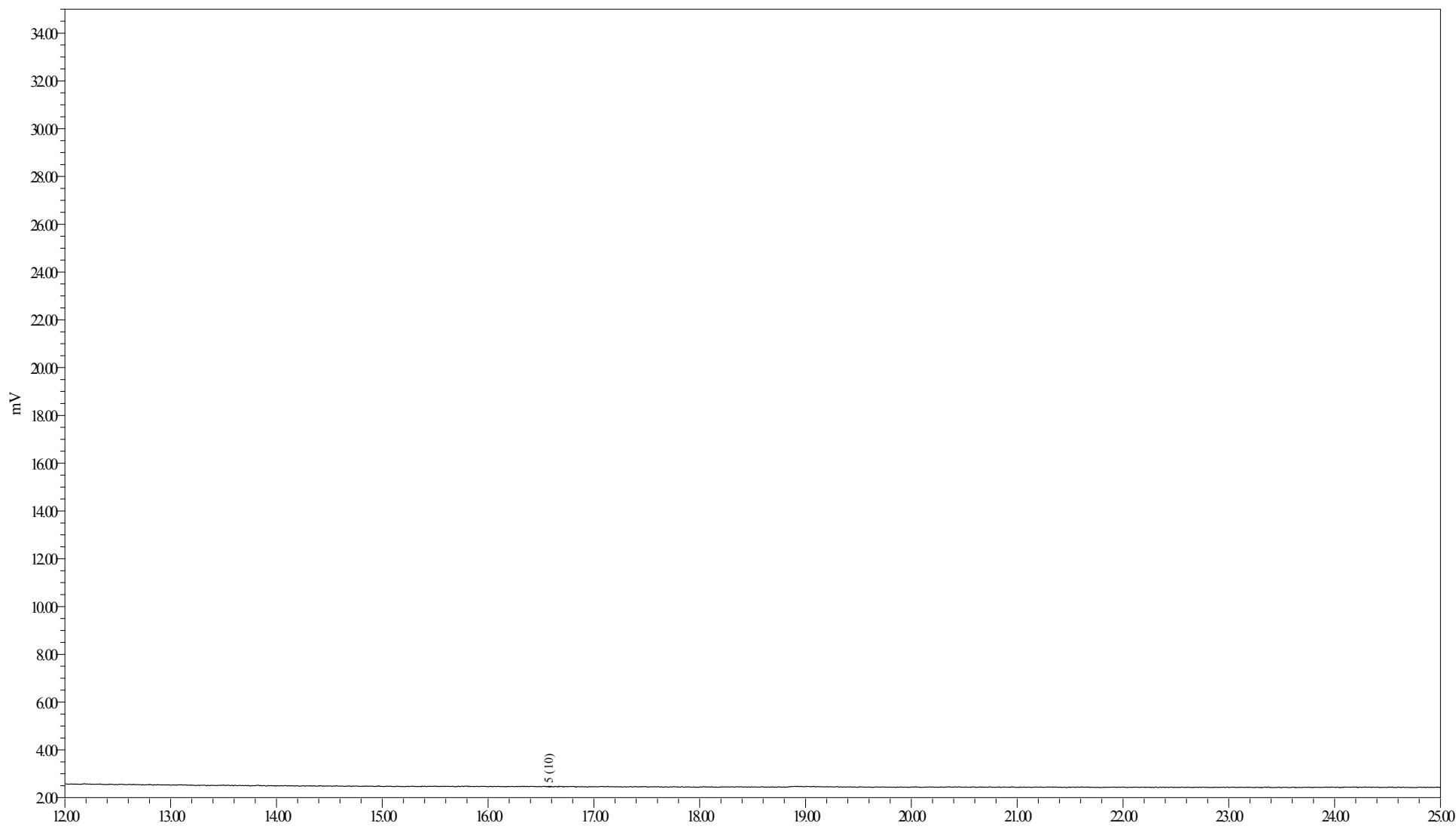
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Dilution:
Processing Method:
LIMS File ID:

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GC30_410_1X_052015
GC30-482-14 [m]

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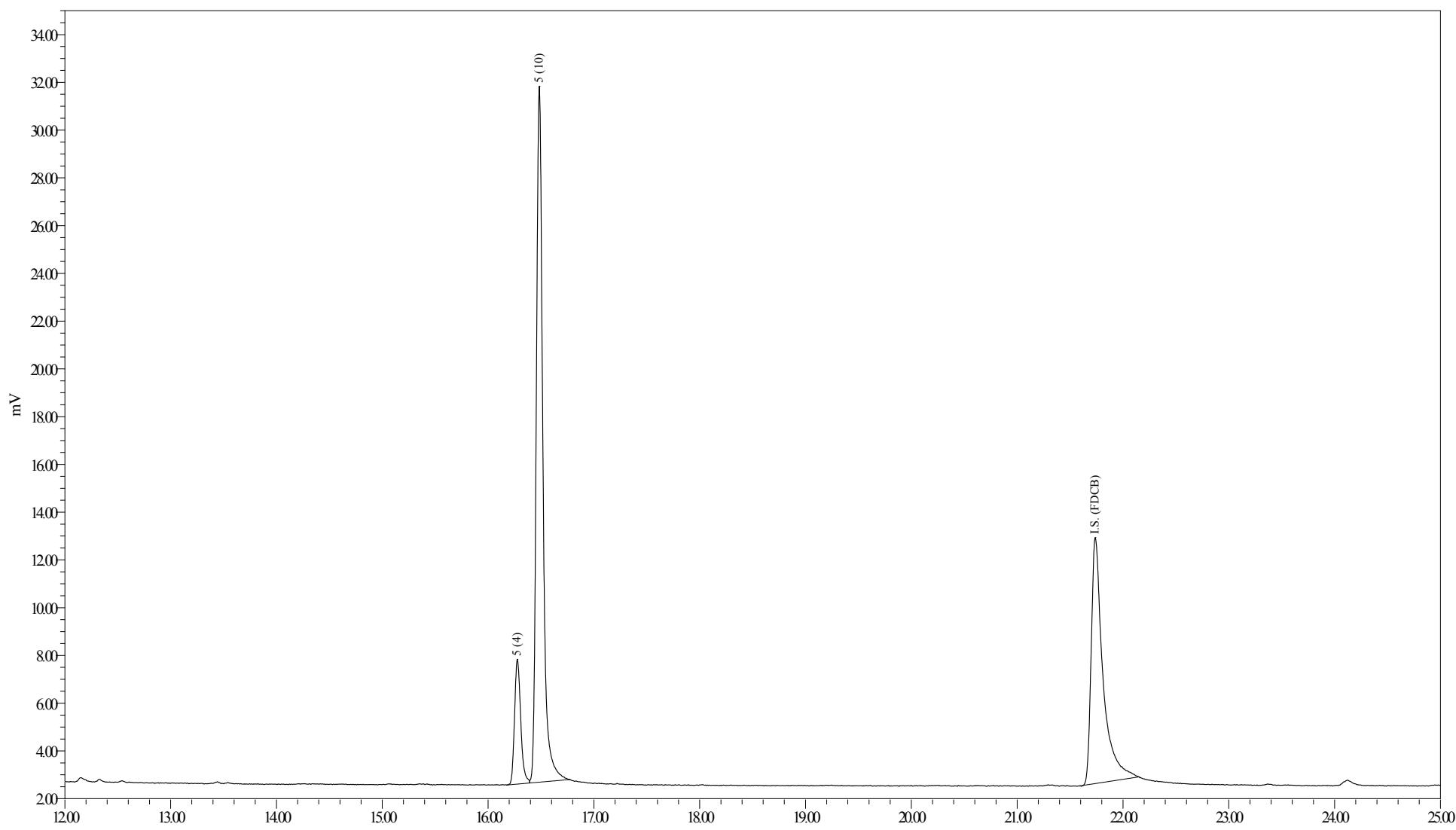
Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: 150824B03
Sample ID: HEXANE BLANK
Date Acquired: 8/24/2015 9:52:10 AM EDT

Sample Amount: 1.0000
Dilution: 1
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-3 [m]

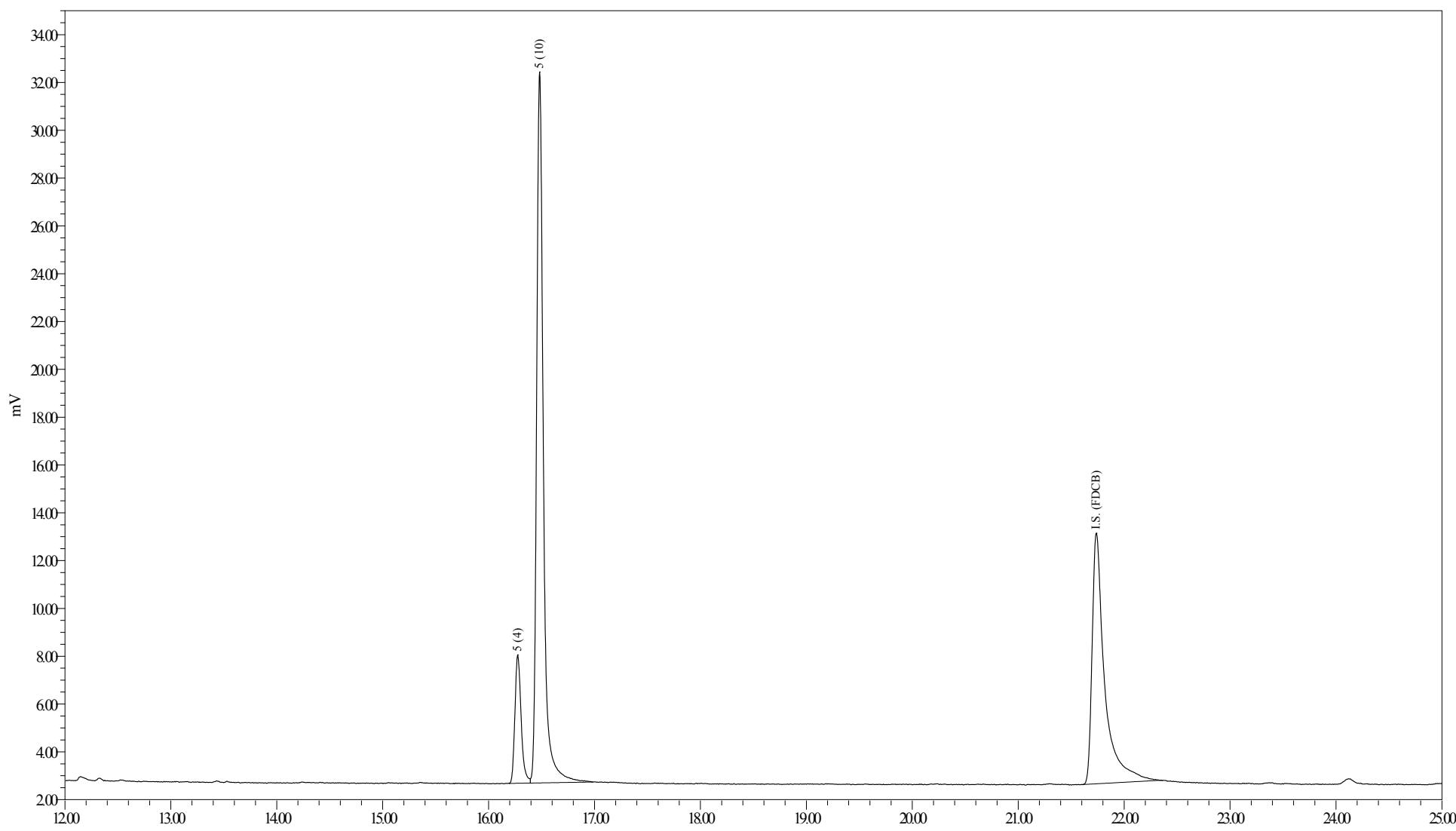


Sample Name:
Sample ID:
Date Acquired:

CCCS0824AA
CCCS Std 25.0 ng/mL
8/24/2015 103931 AMEDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1.0000
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GC30_410_1X_052015
GC30_483-4 [m]



Sample Name:
Sample ID:
Date Acquired:

CCCS0824AB
CCCS Std 25.0 ng/mL
8/24/2015 12:14:19 PM EDT

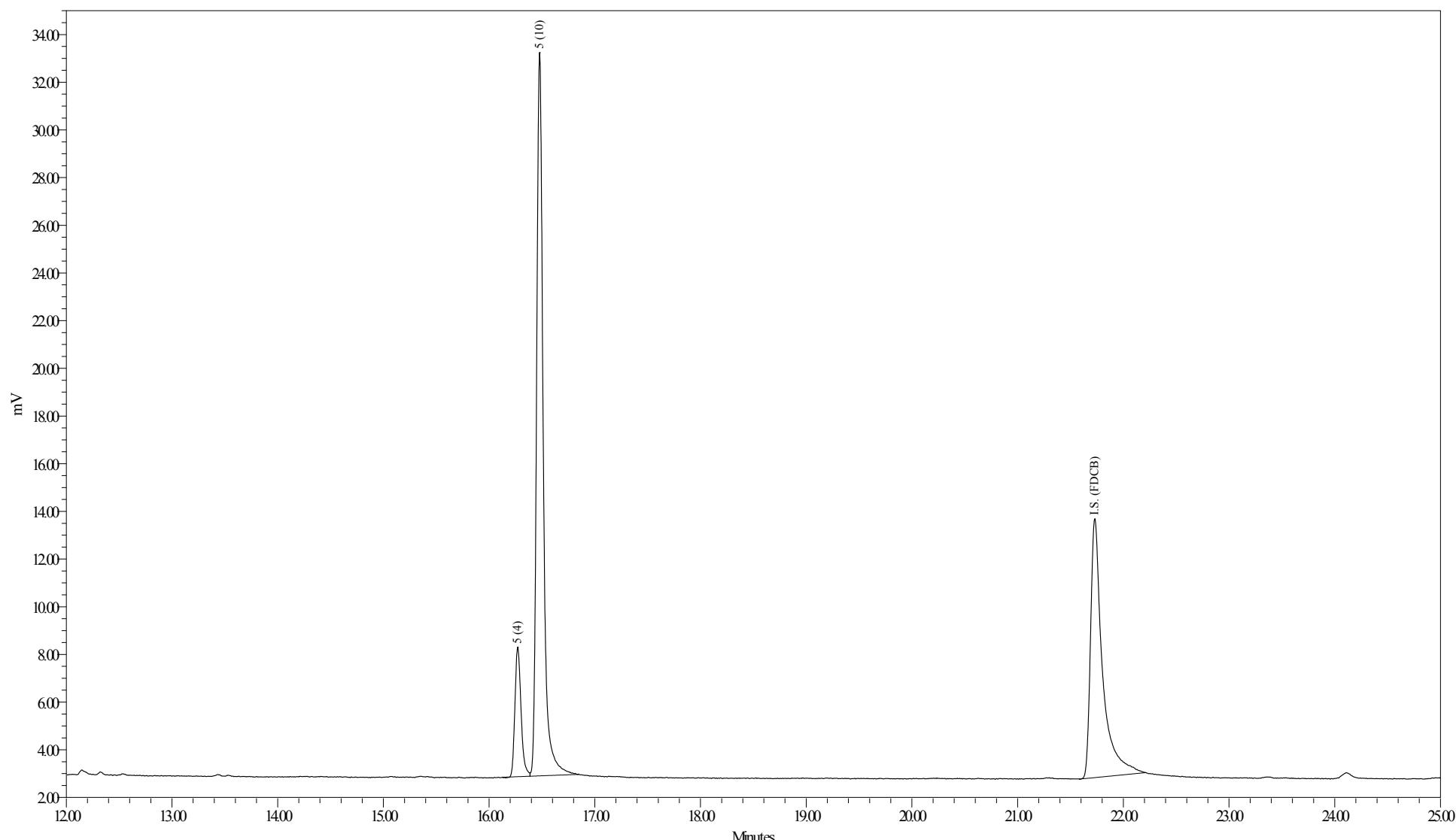
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Dilution:
Processing Method:
LIMS File ID:

1.0000
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GC30_410_1X_052015
GC30-483-6[m]

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Sample Name:
Sample ID:
Date Acquired:

CCCS0824AC
CCCS Std 25.0 ng/mL
8/24/2015 9:12:47 PM EDT

Sample Amount:
Dilution:
Processing Method:
LIMS File ID:

1.0000
1
GC30_410_1X_052015
GC30-483-16 [m]



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Sample Name: CCCS0822AA Sample Amount: 1
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1
Date Acquired: 08/22/2015 18:46:21 Extract Volume: 1
Project Name: GC30_Jan_2015 Date Processed: 08/24/2015 06:51:43
Sample Set Name: GC30_082215 User Name: Angela Racine
Processing Method: GC30_410_1X_052015 Current Time: 15:33:40
Run Time: 38 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC30-482-4 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	5 (4)	16.29	bV	19922	27.286	27.286
2	5 (10)	16.49	Vb	119096	26.237	26.237

CCCS0822AA

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Print Date: 9/24/2015
Lims Version : 5.0.8.9



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Sample Name: CCCS0822AB Sample Amount: 1
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1
Date Acquired: 08/23/2015 02:39:59 Extract Volume: 1
Project Name: GC30_Jan_2015 Date Processed: 08/24/2015 06:52:36
Sample Set Name: GC30_082215 User Name: Angela Racine
Processing Method: GC30_410_1X_052015 Current Time: 15:33:41
Run Time: 38 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC30-482-14 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	5 (4)	16.28	bV	20266	27.158	27.158
2	5 (10)	16.49	Vb	121755	26.244	26.244

CCCS0822AB

1 of 1

Print Date: 9/24/2015
Lims Version : 5.0.8.9



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Sample Name: CCCS0824AA Sample Amount: 1
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1
Date Acquired: 08/24/2015 10:39:31 Extract Volume: 1
Project Name: GC30_Jan_2015 Date Processed: 08/24/2015 12:29:15
Sample Set Name: GC30_082415a User Name: Jared Acker
Processing Method: GC30_410_1X_052015 Current Time: 15:33:41
Run Time: 38 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC30-483-4 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	5 (4)	16.28	bV	21096	27.862	27.862
2	5 (10)	16.48	Vb	125354	26.629	26.629

CCCS0824AA

1 of 1

Print Date: 9/24/2015
Lims Version : 5.0.8.9



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Sample Name: CCCS0824AB Sample Amount: 1
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1
Date Acquired: 08/24/2015 12:14:19 Extract Volume: 1
Project Name: GC30_Jan_2015 Date Processed: 08/24/2015 13:15:47
Sample Set Name: GC30_082415a User Name: Jared Acker
Processing Method: GC30_410_1X_052015 Current Time: 15:33:41
Run Time: 38 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC30-483-6 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	5 (4)	16.27	BV	21868	26.589	26.589
2	5 (10)	16.48	Vb	131595	25.735	25.735

CCCS0824AB

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Print Date: 9/24/2015
Lims Version : 5.0.8.9



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Sample Name: CCCS0824AC Sample Amount: 1
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1
Date Acquired: 08/24/2015 21:12:47 Extract Volume: 1
Project Name: GC30_Jan_2015 Date Processed: 08/25/2015 06:14:12
Sample Set Name: GC30_082415a User Name: Jared Acker
Processing Method: GC30_410_1X_052015 Current Time: 15:33:41
Run Time: 38 Minutes Current Date: 9/24/2015
Report Name: CSGB_ChkStd_ng_mL LIMS File ID: GC30-483-16 [m]

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Integration Type	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	5 (4)	16.27	bV	21918	26.986	26.986
2	5 (10)	16.48	Vb	131683	26.078	26.078

CCCS0824AC

1 of 1

Print Date: 9/24/2015
Lims Version : 5.0.8.9

QC SAMPLE RAW DATA

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-06
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-06(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666B
% Moisture:	100	Lab File ID:	GC24-1219-5
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/22/2015 20:43
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 85276

Percent Recovery (50 - 150 %): 135

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

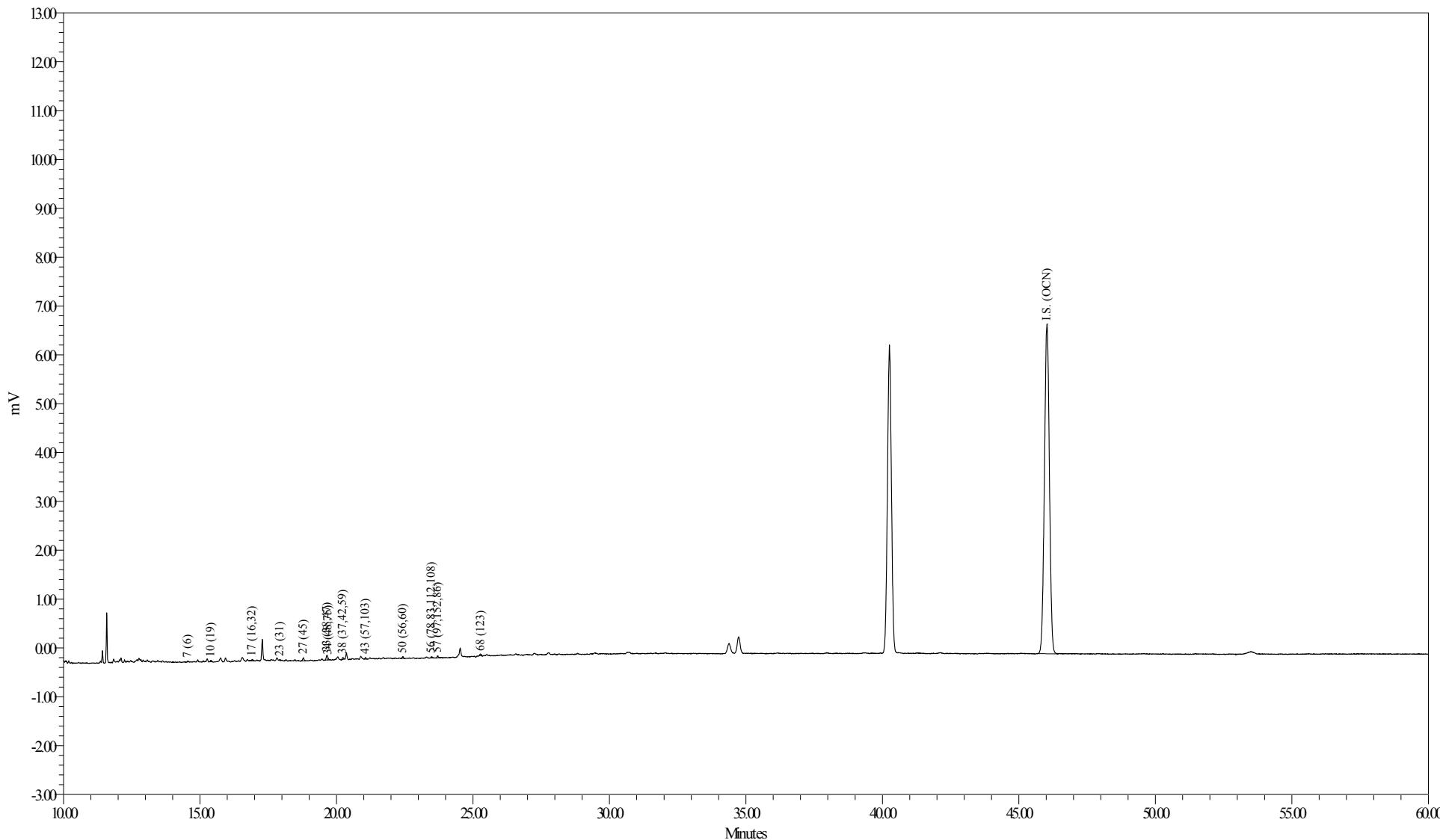
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Sample Name: AS2466B
Sample ID: MEIHODBLANK
Date Acquired: 8/22/2015 8:43:30 PM EDT

Sample Amount (L): 1.0000
Dilution: 5
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1219-5 [m]

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-06RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-06(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666BRR1
% Moisture:	100	Lab File ID:	GC30-482-5
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/22/2015 19:33
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 76927

Percent Recovery (50 - 150 %): 89.5

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

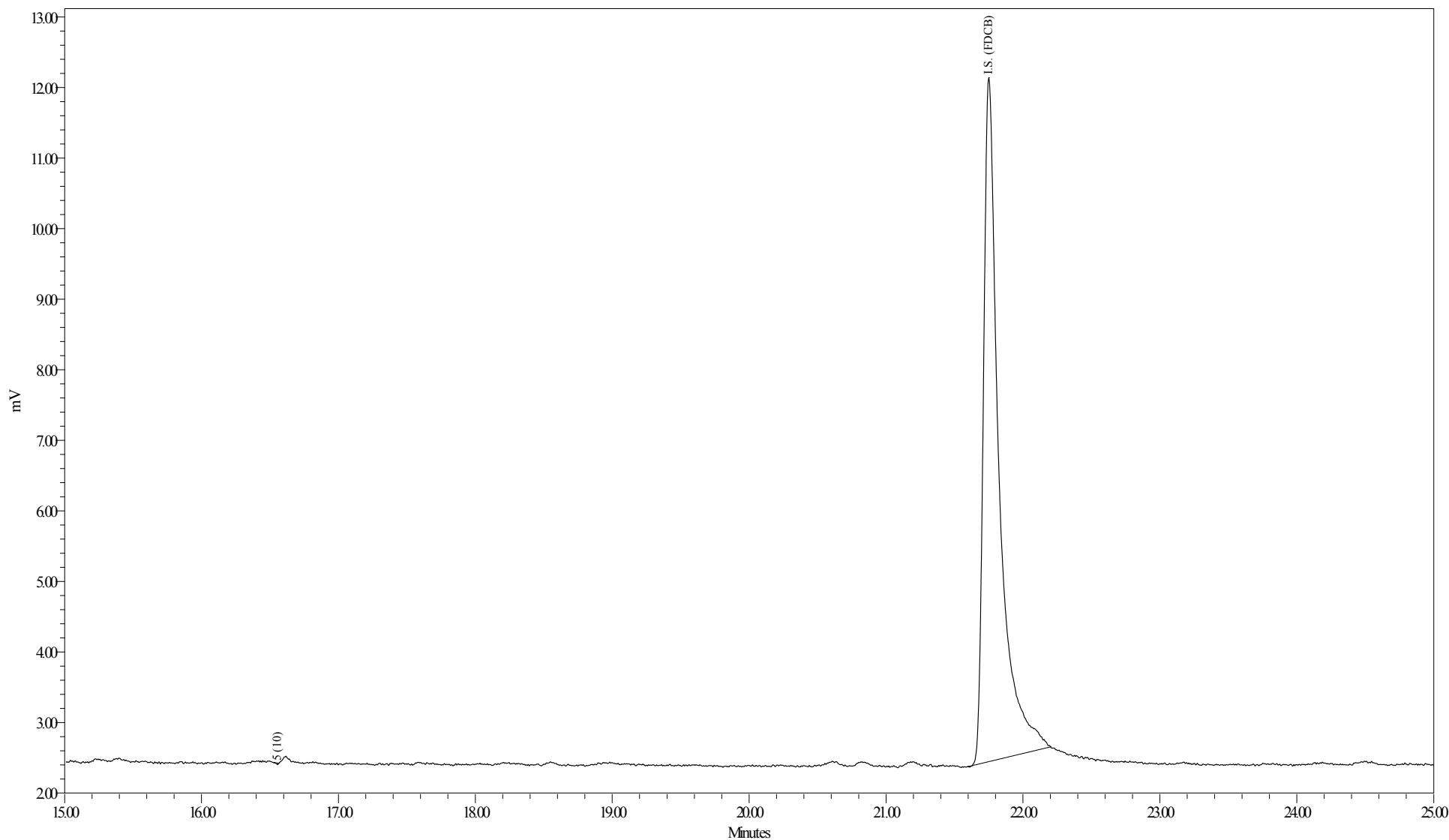
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Sample Name: AS2466BRR1
Sample ID: METHODBLANK
Date Acquired: 8/22/2015 7:33:44 PM EDT

Sample Amount (L): 1.0000
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-482-5 [m]

Sample Name: AS2466BRR1

1 of 1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: METHOD BLANK
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 20:43:30
 Lab Sample ID: AS24666B
 LRF ID: CEBLK-06
 Lab File ID: GC24-1219-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <8.04 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	18.60	20.68
Tetra	59.02	59.19
Penta	22.37	20.13
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221		2/001		
A1242		23+24/31+28		
A1254SED		61/100		
A1254BIO	69+75+82/149+153+138			
A1260		102/180		
A1268		115/194		

Ortho Cl / biphenyl Residue = 1.92

Meta + Para Cl / biphenyl Residue = 2.07

Total Cl / biphenyl Residue = 3.99

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: METHOD BLANK
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 20:43:30
 Lab Sample ID: AS24666B
 LRF ID: CEBLK-06
 Lab File ID: GC24-1219-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picmoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7				0.285	2.19	U
3	12.70	188.7				5.51	1000	U
4	12.80	188.7				1.15	1.28	U
5-4	16.43	223.1				0.150	0.500	U
5-10	16.55	223.1	20			0.0742	0.500	U
6	14.26	223.1				0.0735	0.219	U
7	14.55	223.1	28			0.311	0.347	U
8	14.76	223.1				0.426	2.56	U
9	15.31	223.1				0.859	25.0	U
10	15.39	257.5	35	0.0912	0.354	0.0359	0.102	J
11	15.86	257.5				0.104	25.0	U
12	15.92	223.1				0.396	25.0	U
13	16.11	223.1				0.0396	0.0975	U
14	16.26	249.0				0.132	0.676	U
15	16.34	257.5				0.140	0.676	U
16	16.64	257.5				0.0320	0.0475	U
17	16.91	257.5	63	0.161	0.625	0.121	0.713	J
19	17.34	267.9				0.131	25.0	U
20	17.51	257.5				0.00734	0.0194	U
21	17.65	257.5				0.0343	0.132	U
22	17.72	257.5				0.0219	0.0585	U
23	17.92	257.5	46			0.111	0.753	U
24	17.98	257.5				0.149	0.964	U
25	18.33	259.5				0.142	0.726	U
26	18.56	258.7				0.112	0.530	U
27	18.78	292.0	204	0.470	1.61	0.0864	0.163	
28	18.92	257.5				0.156	25.0	U
29	19.07	292.0				0.0356	0.0731	U
30	19.18	257.5				0.0623	25.0	U
31	19.36	292.0				0.127	0.872	U
32	19.52	292.0				0.125	0.420	U
33	19.65	292.0	297	0.258	0.882	0.0782	0.183	
34	19.68	292.0	61	0.0760	0.260	0.0415	0.183	J
35	19.84	292.0				0.0582	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.0934	25.0	U
37	20.10	292.0				0.251	0.786	U
38	20.23	272.4	138	0.235	0.864	0.122	0.475	J
39	20.57	292.0				0.102	0.749	U
41	20.74	326.4				0.101	25.0	U
42	20.84	292.0				0.0358	0.172	U
43	21.06	298.9	88	0.162	0.541	0.142	25.0	J
44	21.24	298.9				0.0226	0.0402	U
45	21.40	292.0				0.0333	0.0384	U
46	21.57	292.0				0.0721	0.347	U
47	21.71	292.0				0.106	0.621	U
48	21.83	293.5				0.216	1.32	U
49	22.13	324.7				0.0239	0.0932	U
50	22.42	292.0	111	0.191	0.656	0.122	0.640	J
51	22.68	326.4				0.0989	0.329	U
52	22.78	326.4				0.0132	0.0366	U
53	22.92	326.4				0.0430	0.329	U
54	23.12	326.4				0.0172	0.135	U
55	23.39	326.4				0.00657	0.0102	U
56	23.48	326.4	64	0.121	0.370	0.0251	0.0548	
57	23.70	326.4	109	0.129	0.396	0.0653	0.102	
58	23.88	326.4				0.0479	0.212	U
59	24.03	326.4				0.0224	0.128	U
60	24.17	360.9				0.0379	0.137	U
61	24.29	326.4				0.0690	0.389	U
62	24.56	360.9				0.116	25.0	U
63	24.66	326.4				0.0268	0.0804	U
64	24.95	360.9				0.0497	0.311	U
65	25.09	350.5				0.0150	0.0530	U
66	25.14	360.9				0.0349	0.110	U
67	25.21	336.8				0.0198	0.0475	U
68	25.29	326.4	125	0.182	0.558	0.158	25.0	J
69	25.40	337.5				0.154	0.731	U
70	25.51	360.9				0.102	25.0	U
71	25.80	347.8				0.0342	0.0369	U
72	26.00	336.8				0.00525	0.0106	U
73	26.27	360.9				0.0258	0.0713	U
74	26.40	347.8				0.0335	0.248	U
75	26.55	360.9				0.0829	0.538	U
76	26.65	360.9				0.0915	25.0	U
77	27.08	360.9				0.0445	0.311	U
78	27.15	395.3				0.0542	0.267	U
79	27.36	360.9				0.0298	0.0298	U
80	27.51	360.9				0.00954	0.0475	U
82	27.73	360.9				0.0665	0.493	U
83	27.90	360.9				0.0310	0.0457	U
84	28.10	360.9				0.00213	0.00473	U
85	28.44	395.3				0.0563	0.201	U
87	28.74	395.3				0.0298	0.0731	U
88	28.89	395.3				0.0923	0.658	U
89	29.02	360.9				0.0213	0.0366	U
90	29.19	395.3				0.0576	0.311	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.0299	0.0299	U
92	29.79	394.3				0.0169	0.0859	U
93	30.17	394.3				0.0993	0.585	U
94	30.43	394.3				0.0637	0.311	U
95	30.72	382.2				0.0406	0.144	U
96	30.97	429.8				0.00708	0.0121	U
98	31.14	395.3				0.00746	0.0139	U
99	31.51	429.8				0.0412	0.0713	U
100	31.74	395.3				0.0559	0.102	U
101	32.04	429.8				0.0147	0.0402	U
102	32.21	395.3				0.156	1.11	U
103	32.47	395.3				0.0395	0.0768	U
104	32.77	395.3				0.0224	0.0438	U
105	33.13	429.8				0.0159	0.0786	U
106	34.26	395.3				0.182	0.234	U
107	34.52	395.3				0.0564	0.0768	U
108	35.37	429.8				0.0234	0.0438	U
109	35.60	429.8				0.0961	0.768	U
110	36.13	429.8				0.176	0.786	U
111	37.26	395.3				0.0207	0.0207	U
112	38.82	429.8				0.0217	0.101	U
113	39.32	464.2				0.0429	0.0903	U
114	40.24	464.2				0.0138	0.0340	U
115	41.63	429.8				0.0710	0.329	U
116	42.51	429.8				0.0762	0.0762	U
117	47.59	464.2				0.0775	0.124	U
118	53.54	498.6				0.00690	0.00690	U

Total Concentration = <8.04 ng/L

8.04 32.2 U

Total Nanomoles = 0.007

Average Molecular Weight = 291.8

Number of Calibrated Peaks Found = 14

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 85275.7

FDBC Internal Standard Retention Time = 21.75 minutes

FDBC Internal Standard Peak Area = 76927.0

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

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Customer: GENERAL ELECTRIC COMPANY
 Sample Description: METHOD BLANK
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 20:43:30
 Lab Sample ID: AS24666B
 LRF ID: CEBLK-06
 Lab File ID: GC24-1219-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001		2	-	-
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.43	2:2	004		2-2	-	-
5-10	16.55	2:2	010		26	-	-
6	14.26	2:1	007 009		24; 25	-	-
7	14.55	2:1	006		2-3	-	-
8	14.76	2:1	005 008		23; 2-4	-	-
9	15.31	2:0	014		35	-	-
10	15.39	3:3	019	0.3343	26-2	4.391	4.976
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013		34; 3-4	-	-
14	16.26	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.34	3:2	017		24-2	-	-
16	16.64	3:2	024 027		236; 26-3	-	-
17	16.91	3:2	016 032	0.3674	23-2; 26-4	7.752	8.785
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.51	3:1	029		245	-	-
21	17.65	3:1	026		25-3	-	-
22	17.72	3:1	025		24-3	-	-
23	17.92	3:1	031		25-4	-	-
24	17.98	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.33	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.56	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.78	4:3	045	0.4080	236-2	22.638	22.623
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046		23-26	-	-
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.52	4:2	043 049		235-2; 24-25	-	-
33	19.65	4:2	038 047	0.4269	345; 24-24	12.404	12.396
34	19.68	4:2	048 075	0.4275	245-2; 246-4	3.661	3.659
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035		34-3	-	-
37	20.10	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.23	3:0 4:2	037 042 059	0.4395	34-4; 23-24; 236-3	11.332	12.139

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

CEBLK-06

9/10/2015

Lims Version : 5.0.8.9

page 5

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-
41	20.74	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040		23-23	-	-
43	21.06	4:1 5:3	057 103	0.4575	235-3; 246-25	7.783	7.598
44	21.24	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.40	4:1	063		235-4	-	-
46	21.57	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.71	4:1	070		25-34	-	-
48	21.83	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.42	4:1	056 060	0.4871	23-34; 234-4	9.221	9.214
51	22.68	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.78	5:3	089		234-26	-	-
53	22.92	5:2	090 101		235-24; 245-25	-	-
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.48	5:2	078 083 112 108	0.5101	345-3; 235-23; 2356-3; 2346-3	5.820	5.203
57	23.70	5:2 6:4	097 152 086	0.5149	245-23; 2356-26; 2345-2	6.224	5.564
58	23.88	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.03	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.29	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151		2356-25	-	-
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.29	5:1	123	0.5494	345-24	8.773	7.843
69	25.40	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.73	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = <8.04 ng/L

Total Nanomoles = 0.007

Average Molecular Weight = 291.8

Number of Calibrated Peaks Found = 14

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	LCS-06
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-06(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666L
% Moisture:	100	Lab File ID:	GC24-1219-6
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/22/2015 21:49
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 88011

Percent Recovery (50 - 150 %): 139

SAMPLE TOTAL PCB CONCENTRATION: 176 ng/L

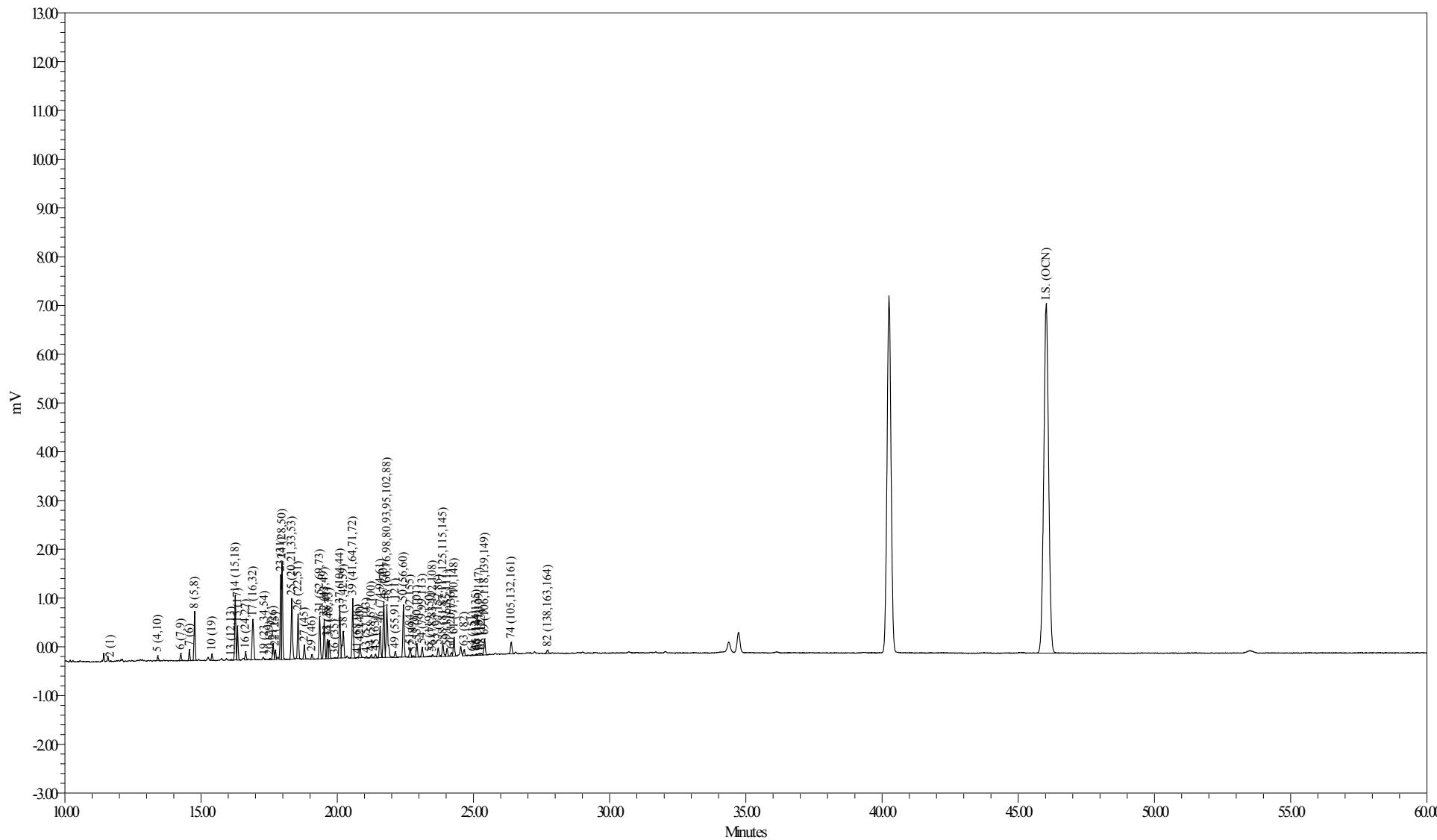
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Amount (L): 1.0000
Dilution: 5
Processing Method: CSGB_LIIX_073115
LIMS File ID: GC24-1219-6[m]

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	LCS-06RR1
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-06(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AS24666LRR1
% Moisture:	100	Lab File ID:	GC30-482-6
Extraction:	1L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/21/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/22/2015 20:21
Analytical SOP Reference:	SOP NE294_02	Dilution Factor:	1
Extraction SOP Reference:	SNYO218	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

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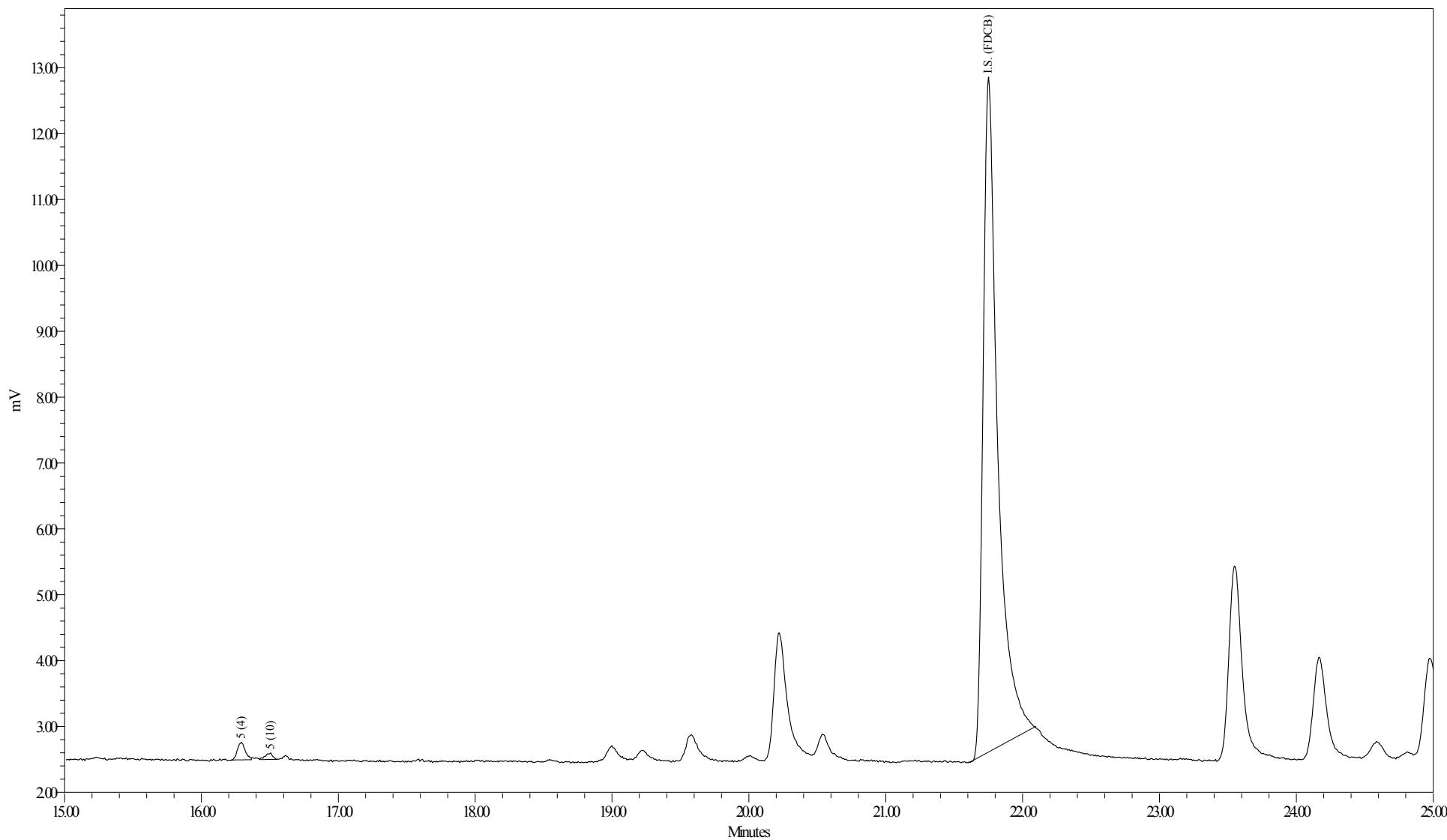
FDCB (I.S.) Peak Area: 76324Percent Recovery (50 - 150 %): 88.8SAMPLE TOTAL PCB CONCENTRATION: 176 ng/LVisual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AS2466LRR1
Sample ID: LABCONTROLSPIKE
Date Acquired: 8/22/2015 8:21:03 PM EDT

Sample Amount (L): 1.0000
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-482-6 [m]

Sample Name: AS2466LRR1

1 of 1

Pace Analytical Services, Inc.
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 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 21:49:03
 Lab Sample ID: AS24666L
 LRF ID: LCS-06
 Lab File ID: GC24-1219-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 176 ng/L

PCB Homolog Distribution			Nominal 'Aroclor' Distribution				
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
Mono	0.41	0.57	A1221	2/001	0.7247	3.23	3.28
Di	19.79	23.19	A1242	23+24/31+28	19.7349	88.1	89.5
Tri	41.63	42.55	A1254SED	61/100	1.9448	8.68	
Tetra	29.86	27.04	A1254BIO	69+75+82/149+153+138	1.6012		7.26
Penta	7.27	5.86	A1260	102/180		0.00	0.00
Hexa	1.03	0.78	A1268	115/194		0.00	0.00
Hepta	0.00	0.00					
Octa	0.00	0.00					
Nona	0.00	0.00					
Deca	0.00	0.00					

Ortho Cl / biphenyl Residue = 1.48

Meta + Para Cl / biphenyl Residue = 1.69

Total Cl / biphenyl Residue = 3.17

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services, Inc.
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 21:49:03
 Lab Sample ID: AS24666L
 LRF ID: LCS-06
 Lab File ID: GC24-1219-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.67	188.7	25	0.725	3.84	0.285	2.19	J
3	12.70	188.7				5.51	1000	U
4	12.80	188.7				1.15	1.28	U
5-4	16.29	223.1	1050	7.17	32.1	0.150	0.500	
5-10	16.50	223.1	362	0.231	1.03	0.0742	0.500	J
6	14.26	223.1	426	0.946	4.24	0.0735	0.219	
7	14.57	223.1	559	2.47	11.1	0.311	0.347	
8	14.76	223.1	2532	21.6	96.6	0.426	2.56	
9	15.31	223.1				0.859	25.0	U
10	15.40	257.5	354	1.04	4.03	0.0359	0.102	B
11	15.86	257.5				0.104	25.0	U
12	15.92	223.1				0.396	25.0	U
13	16.10	223.1	36	0.132	0.593	0.0396	0.0975	
14	16.25	249.0	3686	9.66	38.8	0.132	0.676	
15	16.34	257.5	1887	10.8	41.8	0.140	0.676	
16	16.64	257.5	473	0.905	3.52	0.0320	0.0475	
17	16.90	257.5	3341	10.8	42.1	0.121	0.713	B
19	17.32	267.9	43			0.131	25.0	U
20	17.52	257.5	78	0.195	0.757	0.00734	0.0194	
21	17.65	257.5	918	2.29	8.88	0.0343	0.132	
22	17.73	257.5	551	1.11	4.31	0.0219	0.0585	
23	17.93	257.5	4620	9.13	35.4	0.111	0.753	
24	17.98	257.5	5829	10.6	41.2	0.149	0.964	
25	18.33	259.5	4248	9.98	38.5	0.142	0.726	
26	18.56	258.7	2632	6.64	25.7	0.112	0.530	
27	18.79	292.0	878	1.99	6.80	0.0864	0.163	B
28	18.92	257.5				0.156	25.0	U
29	19.07	292.0	307	0.788	2.70	0.0356	0.0731	
30	19.18	257.5				0.0623	25.0	U
31	19.36	292.0	2590	7.23	24.8	0.127	0.872	
32	19.52	292.0	2433	3.49	11.9	0.125	0.420	
33	19.64	292.0	1179	1.12	3.85	0.0782	0.183	B
34	19.70	292.0	1164	1.73	5.94	0.0415	0.183	B
35	19.84	292.0				0.0582	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.91	257.5	46	0.170	0.659	0.0934	25.0	J
37	20.09	292.0	3320	6.23	21.3	0.251	0.786	
38	20.22	272.4	2424	5.71	21.0	0.122	0.475	B
39	20.57	292.0	3896	5.80	19.8	0.102	0.749	
41	20.74	326.4	30			0.101	25.0	U
42	20.84	292.0	860	1.58	5.40	0.0358	0.172	
43	21.07	298.9	95	0.169	0.566	0.142	25.0	JB
44	21.25	298.9	204	0.278	0.929	0.0226	0.0402	
45	21.40	292.0	282	0.387	1.32	0.0333	0.0384	
46	21.57	292.0	2059	2.02	6.93	0.0721	0.347	
47	21.71	292.0	3565	4.40	15.1	0.106	0.621	
48	21.82	293.5	4307	7.85	26.8	0.216	1.32	
49	22.13	324.7	448	0.793	2.44	0.0239	0.0932	
50	22.43	292.0	3448	4.73	16.2	0.122	0.640	B
51	22.67	326.4	693	2.27	6.97	0.0989	0.329	
52	22.79	326.4	115	0.242	0.742	0.0132	0.0366	
53	22.92	326.4	932	1.33	4.08	0.0430	0.329	
54	23.12	326.4	694	0.663	2.03	0.0172	0.135	
55	23.39	326.4	33	0.0257	0.0787	0.00657	0.0102	
56	23.49	326.4	128	0.240	0.734	0.0251	0.0548	B
57	23.70	326.4	621	0.742	2.27	0.0653	0.102	B
58	23.88	326.4	966	1.30	3.99	0.0479	0.212	
59	24.03	326.4	566	0.652	2.00	0.0224	0.128	
60	24.19	360.9	262	0.341	0.945	0.0379	0.137	
61	24.29	326.4	1279	1.94	5.96	0.0690	0.389	
62	24.56	360.9				0.116	25.0	U
63	24.66	326.4	474	0.597	1.83	0.0268	0.0804	
64	24.95	360.9	65			0.0497	0.311	U
65	25.10	350.5	68	0.0501	0.143	0.0150	0.0530	J
66	25.12	360.9	55	0.131	0.362	0.0349	0.110	
67	25.21	336.8	146	0.214	0.636	0.0198	0.0475	
68	25.29	326.4	165	0.232	0.712	0.158	25.0	JB
69	25.41	337.5	1153	1.30	3.85	0.154	0.731	
70	25.51	360.9				0.102	25.0	U
71	25.80	347.8				0.0342	0.0369	U
72	26.00	336.8				0.00525	0.0106	U
73	26.27	360.9				0.0258	0.0713	U
74	26.39	347.8	904	0.858	2.47	0.0335	0.248	
75	26.55	360.9				0.0829	0.538	U
76	26.65	360.9				0.0915	25.0	U
77	27.08	360.9				0.0445	0.311	U
78	27.15	395.3				0.0542	0.267	U
79	27.36	360.9				0.0298	0.0298	U
80	27.51	360.9				0.00954	0.0475	U
82	27.72	360.9	321	0.302	0.837	0.0665	0.493	J
83	27.90	360.9				0.0310	0.0457	U
84	28.10	360.9				0.00213	0.00473	U
85	28.44	395.3				0.0563	0.201	U
87	28.74	395.3				0.0298	0.0731	U
88	28.89	395.3				0.0923	0.658	U
89	29.02	360.9				0.0213	0.0366	U
90	29.19	395.3				0.0576	0.311	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.0299	0.0299	U
92	29.79	394.3				0.0169	0.0859	U
93	30.17	394.3				0.0993	0.585	U
94	30.43	394.3				0.0637	0.311	U
95	30.72	382.2				0.0406	0.144	U
96	30.97	429.8				0.00708	0.0121	U
98	31.14	395.3				0.00746	0.0139	U
99	31.51	429.8				0.0412	0.0713	U
100	31.74	395.3				0.0559	0.102	U
101	32.04	429.8				0.0147	0.0402	U
102	32.21	395.3				0.156	1.11	U
103	32.47	395.3				0.0395	0.0768	U
104	32.77	395.3				0.0224	0.0438	U
105	33.13	429.8				0.0159	0.0786	U
106	34.26	395.3				0.182	0.234	U
107	34.52	395.3				0.0564	0.0768	U
108	35.37	429.8				0.0234	0.0438	U
109	35.60	429.8				0.0961	0.768	U
110	36.13	429.8				0.176	0.786	U
111	37.26	395.3				0.0207	0.0207	U
112	38.82	429.8				0.0217	0.101	U
113	39.32	464.2				0.0429	0.0903	U
114	40.24	464.2				0.0138	0.0340	U
115	41.63	429.8				0.0710	0.329	U
116	42.51	429.8				0.0762	0.0762	U
117	47.59	464.2				0.0775	0.124	U
118	53.54	498.6				0.00690	0.00690	U

Total Concentration = 176 ng/L

8.04 32.2

Total Nanomoles = 0.670

Average Molecular Weight = 263.3

Number of Calibrated Peaks Found = 60

OCN Internal Standard Retention Time = 46.03 minutes

OCN Internal Standard Peak Area = 88010.7

FDBC Internal Standard Retention Time = 21.75 minutes

FDBC Internal Standard Peak Area = 76323.7

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
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PCB Congener Amount Report

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Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/22/2015 21:49:03
 Lab Sample ID: AS24666L
 LRF ID: LCS-06
 Lab File ID: GC24-1219-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.67	1:1	001	0.2535	2	0.411	0.574
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.29	2:2	004	0.3539	2-2	4.066	4.799
5-10	16.50	2:2	010	0.3585	26	0.131	0.154
6	14.26	2:1	007 009	0.3098	24; 25	0.536	0.633
7	14.57	2:1	006	0.3165	2-3	1.399	1.651
8	14.76	2:1	005 008	0.3207	23; 2-4	12.227	14.430
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019	0.3346	26-2	0.588	0.602
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.10	2:0	012 013	0.3498	34; 3-4	0.075	0.089
14	16.25	2:0 3:2	015 018	0.3530	4-4; 25-2	5.482	5.797
15	16.34	3:2	017	0.3550	24-2	6.109	6.247
16	16.64	3:2	024 027	0.3615	236; 26-3	0.513	0.525
17	16.90	3:2	016 032	0.3672	23-2; 26-4	6.143	6.282
19	17.32	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.52	3:1	029	0.3806	245	0.111	0.113
21	17.65	3:1	026	0.3834	25-3	1.298	1.327
22	17.73	3:1	025	0.3852	24-3	0.630	0.644
23	17.93	3:1	031	0.3895	25-4	5.178	5.294
24	17.98	3:1 4:3	028 050	0.3906	24-4; 246-2	6.017	6.152
25	18.33	3:1 4:3	020 021 033 053	0.3982	23-3; 234; 34-2; 25-26	5.661	5.744
26	18.56	3:1 4:3	022 051	0.4032	23-4; 24-26	3.768	3.835
27	18.79	4:3	045	0.4082	236-2	1.126	1.015
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4143	23-26	0.447	0.403
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073	0.4206	25-25; 246-3; 26-35	4.104	3.701
32	19.52	4:2	043 049	0.4241	235-2; 24-25	1.978	1.784
33	19.64	4:2	038 047	0.4267	345; 24-24	0.638	0.575
34	19.70	4:2	048 075	0.4280	245-2; 246-4	0.983	0.886
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.91	3:0	035	0.4325	34-3	0.096	0.098
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	3.536	3.188
38	20.22	3:0 4:2	037 042 059	0.4393	34-4; 23-24; 236-3	3.237	3.129

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

LCS-06

9/10/2015

Lims Version : 5.0.8.9

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DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072	0.4469	234-2; 236-4; 26-34; 25-35	3.288	2.965
41	20.74	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040	0.4527	23-23	0.895	0.807
43	21.07	4:1 5:3	057 103	0.4577	235-3; 246-25	0.096	0.085
44	21.25	4:1 5:3	058 067 100	0.4617	23-35; 245-3; 246-24	0.157	0.139
45	21.40	4:1	063	0.4649	235-4	0.219	0.198
46	21.57	4:1 5:3	074 094 061	0.4686	245-4; 235-26; 2345	1.148	1.035
47	21.71	4:1	070	0.4716	25-34	2.497	2.251
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4740	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.455	3.997
49	22.13	4:1 5:3	055 091 121	0.4808	234-3; 236-24; 246-35	0.450	0.365
50	22.43	4:1	056 060	0.4873	23-34; 234-4	2.682	2.419
51	22.67	5:3 6:4	084 092 155	0.4925	236-23; 235-25; 246-246	1.290	1.041
52	22.79	5:3	089	0.4951	234-26	0.137	0.111
53	22.92	5:2	090 101	0.4979	235-24; 245-25	0.755	0.609
54	23.12	5:2	079 099 113	0.5023	34-35; 245-24; 236-35	0.376	0.303
55	23.39	5:2 6:4	119 150	0.5081	246-34; 236-246	0.015	0.012
56	23.49	5:2	078 083 112 108	0.5103	345-3; 235-23; 2356-3; 2346-3	0.136	0.110
57	23.70	5:2 6:4	097 152 086	0.5149	245-23; 2356-26; 2345-2	0.421	0.340
58	23.88	5:2	081 087 117 125 115 145	0.5188	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.738	0.596
59	24.03	5:2	116 085 111	0.5221	23456; 234-24; 235-35	0.370	0.299
60	24.19	6:4	120 136	0.5255	245-35; 236-236	0.194	0.141
61	24.29	5:2	077 110 148	0.5277	34-34; 236-34; 235-246	1.103	0.890
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5357	234-23	0.338	0.273
64	24.95	6:3	151		2356-25	-	-
65	25.10	5:1 6:3	124 135	0.5453	345-25; 235-236	0.028	0.021
66	25.12	6:3	144	0.5457	2346-25	0.074	0.054
67	25.21	5:1 6:3	107 109 147	0.5477	234-35; 235-34; 2356-24	0.121	0.095
68	25.29	5:1	123	0.5494	345-24	0.132	0.106
69	25.41	5:1 6:3	106 118 139 149	0.5520	2345-3; 245-34; 2346-24; 236-245	0.737	0.575
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.39	5:1 6:3	105 132 161	0.5733	234-34; 234-236; 2346-35	0.487	0.369
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.72	6:2	138 163 164	0.6022	234-245; 2356-34; 236-345	0.171	0.125
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 176 ng/L

Total Nanomoles = 0.670

Average Molecular Weight = 263.3

Number of Calibrated Peaks Found = 60

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-07RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-07(METHOD BLANK)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847BRR1
% Moisture:	100	Lab File ID:	GC30-483-7
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 14:06
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 81413

Percent Recovery (50 - 150 %): 94.7

SAMPLE TOTAL PCB CONCENTRATION: <1.22 ng/L U

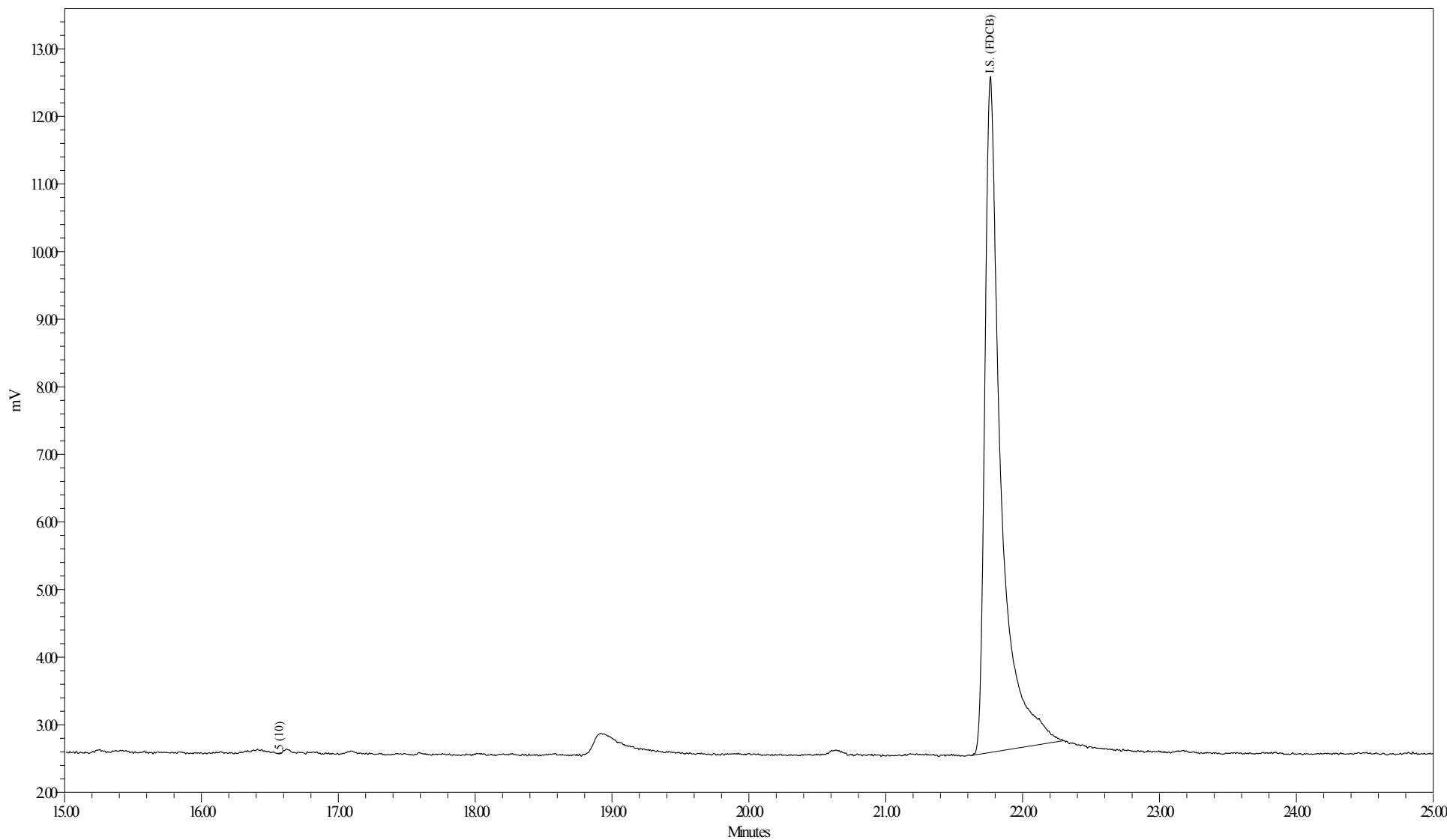
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Sample Name: AS24847BRR1
Sample ID: METHODBLANK
Date Acquired: 8/24/2015 2:06:04 PM EDT

Sample Amount (L): 8.0000
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-7 [m]

Sample Name: AS24847BRR1

1 of 1

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	CEBLK-07RR2
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-07(METHOD BLANK)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847BRR2
% Moisture:	100	Lab File ID:	GC24-1221-1
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 09:43
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

OCN (I.S.) Peak Area: 79726

Percent Recovery (50 - 150 %): 126

SAMPLE TOTAL PCB CONCENTRATION: <1.22 ng/L U

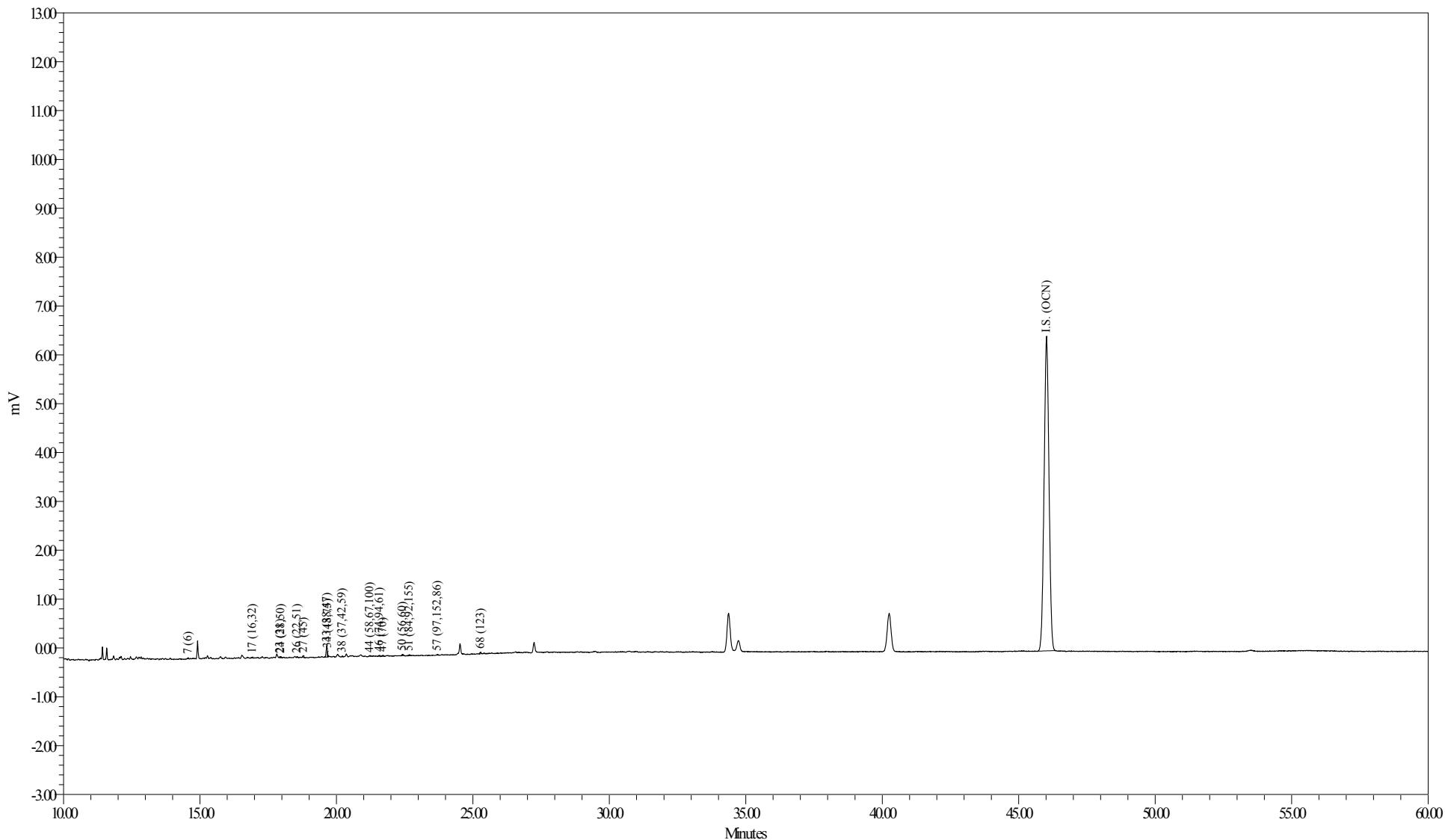
Visual Aroclor ID: No Aroclor Pattern Detected

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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Sample Name: AS24847BRR2
Sample ID: METHOD BLANK
Date Acquired: 8/25/2015 9:43:53 AM EDT

Sample Amount (L): 8.0000
Dilution: 5
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1221-1 [m]

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: METHOD BLANK
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 09:43:53
 Lab Sample ID: AS24847BRR2
 LRF ID: CEBLK-07RR2
 Lab File ID: GC24-1221-1

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <1.22 ng/L U

PCB Homolog Distribution			Nominal 'Aroclor' Distribution			
Homologs	Weight %	Mole %	Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment Biota
Mono	0.00	0.00	A1221	2/001		
Di	0.00	0.00	A1242	23+24/31+28		
Tri	0.00	0.00	A1254SED	61/100		
Tetra	87.83	88.93	A1254BIO	69+75+82/149+153+138		
Penta	12.17	11.07	A1260	102/180		
Hexa	0.00	0.00	A1268	115/194		
Hepta	0.00	0.00				
Octa	0.00	0.00				
Nona	0.00	0.00				
Deca	0.00	0.00				

Ortho Cl / biphenyl Residue = 2.30

Meta + Para Cl / biphenyl Residue = 1.81

Total Cl / biphenyl Residue = 4.11

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY

Sample Description: METHOD BLANK

Comment: HUDSON RIVER RAMP;COC150812091434PACE

Date Acquired: 08/25/2015 09:43:53

Lab Sample ID: AS24847BRR2

LRF ID: CEBLK-07RR2

Lab File ID: GC24-1221-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.68	188.7				0.0437	0.274	U
3	12.70	188.7				0.885	125	U
4	12.80	188.7				0.164	0.164	U
5-4	16.43	223.1				0.0155	0.0625	U
5-10	16.57	223.1	8			0.0119	0.0625	U
6	14.26	223.1				0.0166	0.0274	U
7	14.57	223.1	52			0.0335	0.0434	U
8	14.76	223.1				0.0451	0.320	U
9	15.31	223.1				0.0604	3.13	U
10	15.40	257.5				0.0109	0.0128	U
11	15.86	257.5				0.0173	3.13	U
12	15.92	223.1				0.0571	3.13	U
13	16.11	223.1				0.00804	0.0122	U
14	16.26	249.0				0.0138	0.0845	U
15	16.34	257.5				0.0171	0.0845	U
16	16.64	257.5				0.00417	0.00594	U
17	16.92	257.5	35			0.0179	0.0891	U
19	17.34	267.9				0.0246	3.13	U
20	17.51	257.5				0.00281	0.00281	U
21	17.65	257.5				0.00318	0.0164	U
22	17.72	257.5				0.00339	0.00731	U
23	17.93	257.5	44			0.0181	0.0942	U
24	17.96	257.5	37			0.0166	0.121	U
25	18.33	259.5				0.0137	0.0907	U
26	18.55	258.7	27			0.0134	0.0662	U
27	18.79	292.0	106	0.0324	0.111	0.00507	0.0203	
28	18.92	257.5				0.0272	3.13	U
29	19.07	292.0				0.00639	0.00914	U
30	19.18	257.5				0.0248	3.13	U
31	19.36	292.0				0.0252	0.109	U
32	19.52	292.0				0.0125	0.0525	U
33	19.65	292.0	661	0.0848	0.290	0.0119	0.0228	
34	19.67	292.0	86	0.0155	0.0531	0.00506	0.0228	J
35	19.84	292.0				0.0204	3.13	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.92	257.5				0.0227	3.13	U
37	20.10	292.0				0.0781	0.0982	U
38	20.21	272.4	24			0.0114	0.0594	U
39	20.57	292.0				0.0134	0.0937	U
41	20.74	326.4				0.0302	3.13	U
42	20.84	292.0				0.0150	0.0215	U
43	21.08	298.9				0.0301	3.13	U
44	21.22	298.9	21	0.00391	0.0131	0.00171	0.00503	J
45	21.40	292.0				0.0101	0.0101	U
46	21.57	292.0	48			0.00870	0.0434	U
47	21.70	292.0	61			0.0165	0.0777	U
48	21.83	293.5				0.0247	0.164	U
49	22.13	324.7				0.00942	0.0117	U
50	22.42	292.0	84			0.0340	0.0799	U
51	22.67	326.4	57	0.0180	0.0552	0.00889	0.0411	J
52	22.78	326.4				0.00679	0.00679	U
53	22.92	326.4				0.00741	0.0411	U
54	23.12	326.4				0.00273	0.0169	U
55	23.39	326.4				0.000723	0.00128	U
56	23.49	326.4				0.00391	0.00685	U
57	23.70	326.4	33			0.0266	0.0266	U
58	23.88	326.4				0.00650	0.0265	U
59	24.03	326.4				0.00289	0.0160	U
60	24.17	360.9				0.00378	0.0171	U
61	24.29	326.4				0.00720	0.0487	U
62	24.56	360.9				0.0268	3.13	U
63	24.66	326.4				0.00669	0.0100	U
64	24.95	360.9				0.00710	0.0388	U
65	25.09	350.5				0.00266	0.00663	U
66	25.14	360.9				0.0219	0.0219	U
67	25.21	336.8				0.00328	0.00594	U
68	25.28	326.4	85			0.0391	3.13	U
69	25.40	337.5				0.0115	0.0914	U
70	25.51	360.9				0.0242	3.13	U
71	25.80	347.8				0.00281	0.00461	U
72	26.00	336.8				0.00262	0.00262	U
73	26.27	360.9				0.00678	0.00891	U
74	26.40	347.8				0.00664	0.0309	U
75	26.55	360.9				0.0181	0.0673	U
76	26.65	360.9				0.0195	3.13	U
77	27.08	360.9				0.00505	0.0388	U
78	27.15	395.3				0.00507	0.0334	U
79	27.36	360.9				0.00601	0.00601	U
80	27.51	360.9				0.00107	0.00594	U
82	27.73	360.9				0.0120	0.0617	U
83	27.90	360.9				0.00461	0.00571	U
84	28.10	360.9				0.000190	0.000591	U
85	28.44	395.3				0.00621	0.0251	U
87	28.74	395.3				0.00349	0.00914	U
88	28.89	395.3				0.0115	0.0822	U
89	29.02	360.9				0.00126	0.00457	U
90	29.19	395.3				0.00802	0.0388	U

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DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.00537	0.00537	U
92	29.79	394.3				0.00170	0.0107	U
93	30.17	394.3				0.00993	0.0731	U
94	30.43	394.3				0.00618	0.0388	U
95	30.72	382.2				0.00663	0.0180	U
96	30.97	429.8				0.000780	0.00151	U
98	31.14	395.3				0.00250	0.00250	U
99	31.51	429.8				0.00120	0.00891	U
100	31.74	395.3				0.0571	0.0571	U
101	32.04	429.8				0.00594	0.00594	U
102	32.21	395.3				0.0272	0.139	U
103	32.47	395.3				0.00232	0.00959	U
104	32.77	395.3				0.00155	0.00548	U
105	33.13	429.8				0.00240	0.00982	U
106	34.26	395.3				0.0212	0.0292	U
107	34.52	395.3				0.00801	0.00959	U
108	35.37	429.8				0.00168	0.00548	U
109	35.60	429.8				0.0166	0.0959	U
110	36.13	429.8				0.0185	0.0982	U
111	37.26	395.3				0.00213	0.00213	U
112	38.82	429.8				0.00277	0.0126	U
113	39.32	464.2				0.00374	0.0113	U
114	40.24	464.2				0.00528	0.00528	U
115	41.63	429.8				0.00500	0.0411	U
116	42.51	429.8				0.00668	0.00668	U
117	47.59	464.2				0.00189	0.0155	U
118	53.54	498.6				0.000763	0.000763	U

Total Concentration = <1.22 ng/L

1.22 4.11 U

Total Nanomoles = 0.001

Average Molecular Weight = 295.8

Number of Calibrated Peaks Found = 17

OCN Internal Standard Retention Time = 46.02 minutes

OCN Internal Standard Peak Area = 79725.9

FDBC Internal Standard Retention Time = 21.76 minutes

FDBC Internal Standard Peak Area = 81413.0

Pace Analytical Services, Inc.
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 Schenectady, NY 12308
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PCB Congener Amount Report

18

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: METHOD BLANK
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 09:43:53
 Lab Sample ID: AS24847BRR2
 LRF ID: CEBLK-07RR2
 Lab File ID: GC24-1221-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.68	1:1	001		2	-	-
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.43	2:2	004		2-2	-	-
5-10	16.57	2:2	010		26	-	-
6	14.26	2:1	007 009		24; 25	-	-
7	14.57	2:1	006		2-3	-	-
8	14.76	2:1	005 008		23; 2-4	-	-
9	15.31	2:0	014		35	-	-
10	15.40	3:3	019		26-2	-	-
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.11	2:0	012 013		34; 3-4	-	-
14	16.26	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.34	3:2	017		24-2	-	-
16	16.64	3:2	024 027		236; 26-3	-	-
17	16.92	3:2	016 032		23-2; 26-4	-	-
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.51	3:1	029		245	-	-
21	17.65	3:1	026		25-3	-	-
22	17.72	3:1	025		24-3	-	-
23	17.93	3:1	031		25-4	-	-
24	17.96	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.33	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.55	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.79	4:3	045	0.4083	236-2	20.929	21.202
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046		23-26	-	-
30	19.18	3:0	039		35-4	-	-
31	19.36	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.52	4:2	043 049		235-2; 24-25	-	-
33	19.65	4:2	038 047	0.4270	345; 24-24	54.849	55.564
34	19.67	4:2	048 075	0.4274	245-2; 246-4	10.031	10.162
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.92	3:0	035		34-3	-	-
37	20.10	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.21	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

CEBLK-07RR2

9/10/2015

Lims Version : 5.0.8.9

page 5

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-
41	20.74	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040		23-23	-	-
43	21.08	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.22	4:1 5:3	058 067 100	0.4611	23-35; 245-3; 246-24	2.529	2.503
45	21.40	4:1	063		235-4	-	-
46	21.57	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.70	4:1	070		25-34	-	-
48	21.83	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.13	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.42	4:1	056 060		23-34; 234-4	-	-
51	22.67	5:3 6:4	084 092 155	0.4926	236-23; 235-25; 246-246	11.661	10.568
52	22.78	5:3	089		234-26	-	-
53	22.92	5:2	090 101		235-24; 245-25	-	-
54	23.12	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.39	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.49	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.70	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.88	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.03	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.17	6:4	120 136		245-35; 236-236	-	-
61	24.29	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082		234-23	-	-
64	24.95	6:3	151		2356-25	-	-
65	25.09	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.14	6:3	144		2346-25	-	-
67	25.21	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.28	5:1	123		345-24	-	-
69	25.40	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.40	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.73	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = <1.22 ng/L

Total Nanomoles = 0.001

Average Molecular Weight = 295.8

Number of Calibrated Peaks Found = 17

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

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Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	LCS-07RR1
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-07(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847LRR1
% Moisture:	100	Lab File ID:	GC30-483-8
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2015 14:53
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm		

FDCB (I.S.) Peak Area: 80019

Percent Recovery (50 - 150 %): 93.1

SAMPLE TOTAL PCB CONCENTRATION: 6.22 ng/L

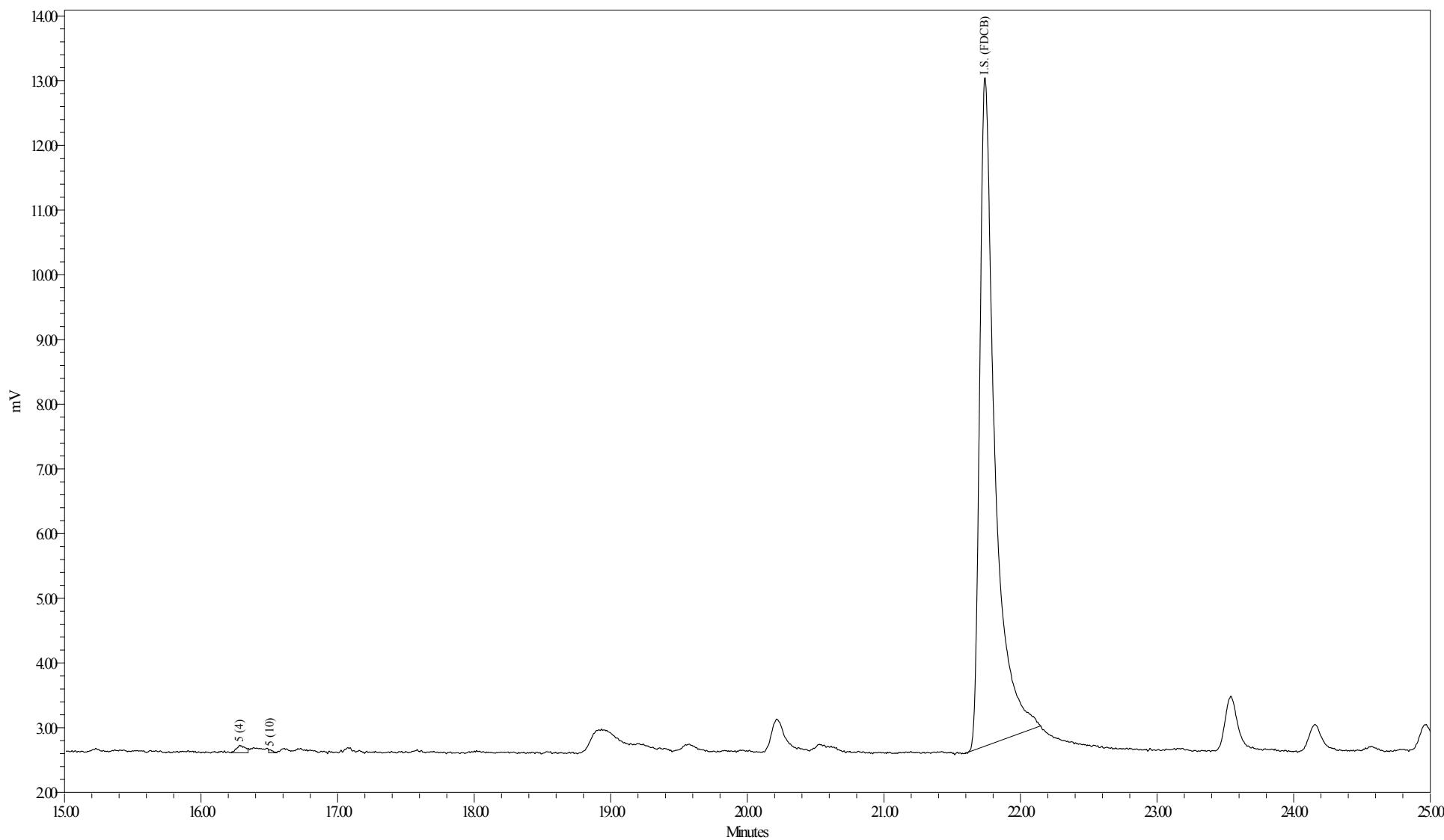
Visual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AS24847LRR1
Sample ID: LABCONTROLSPIKE
Date Acquired: 8/24/2015 2:53:25 PM EDT

Sample Amount (L): 8.0000
Dilution: 5
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-483-8 [m]

Sample Name: AS24847LRR1

1 of 1

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	15080496
ELAP ID No:	11078	LRF ID:	LCS-07RR2
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-07(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AS24847LRR2
% Moisture:	100	Lab File ID:	GC24-1221-2
Extraction:	8L - Solid Phase Extraction	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2015
Injection Volume:	0.5 uL	Date/Time Analyzed:	08/25/2015 10:49
Analytical SOP Reference:	SOP NE294_02.DOC	Dilution Factor:	1
Extraction SOP Reference:	SNYO208	Sample Cleanup:	YES
GC Column:	Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm		

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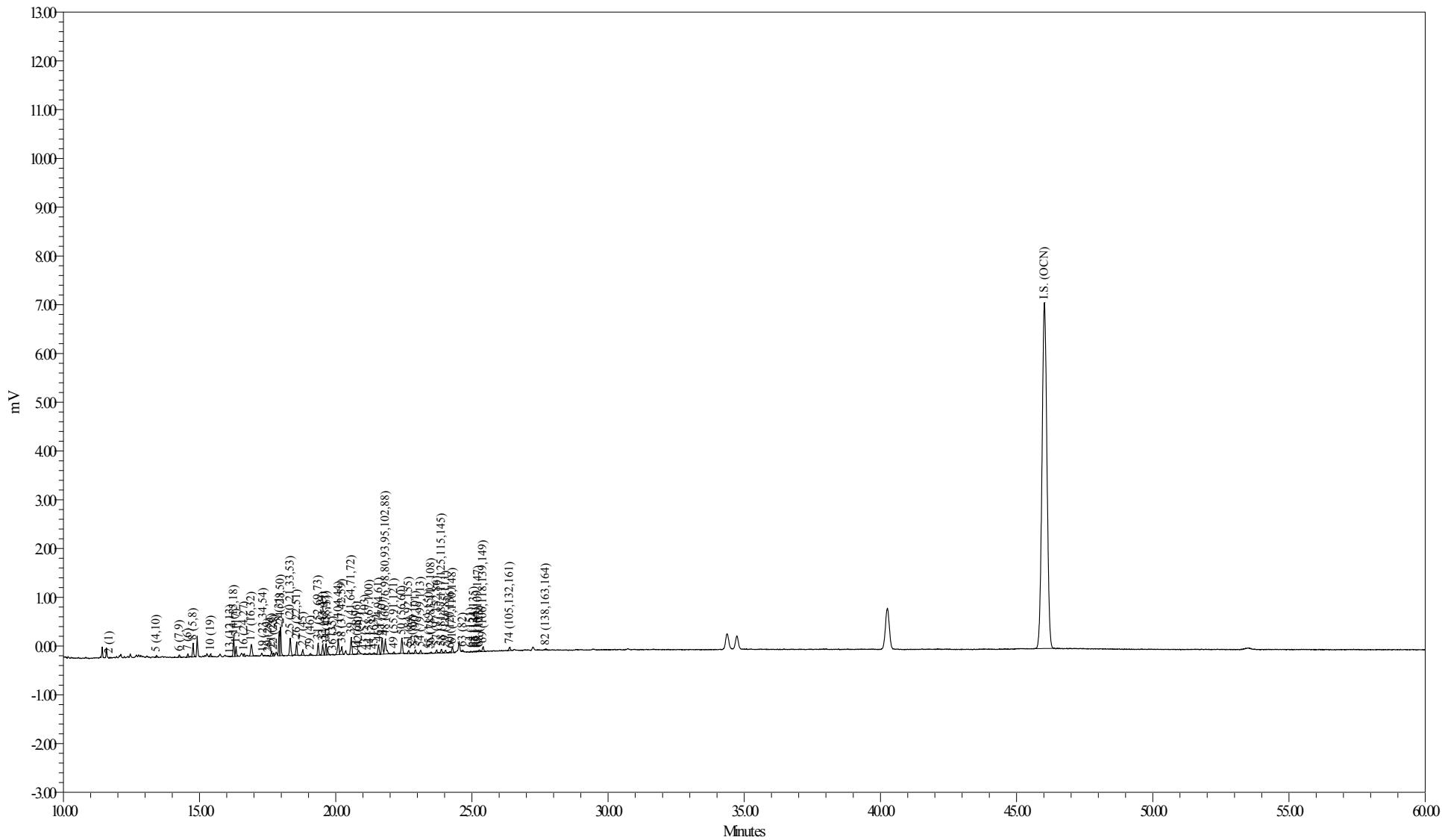
OCN (I.S.) Peak Area: 88755Percent Recovery (50 - 150 %): 140SAMPLE TOTAL PCB CONCENTRATION: 6.22 ng/LVisual Aroclor ID: PCB Added to Sample

Note: NYSDOH-ELAP does not offer NELAC certification for this analytical method. This method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AS24847LRR2
Sample ID: LAB CONTROL SPIKE
Date Acquired: 8/25/2015 10:49:29 AM EDT

Sample Amount (L) : 8.0000
Dilution : 5
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1221-2[m]

Sample Name: AS24847LRR2

1 of 1

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 10:49:29
 Lab Sample ID: AS24847LRR2
 LRF ID: LCS-07RR2
 Lab File ID: GC24-1221-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 6.22 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	1.18	1.63
Di	20.75	24.18
Tri	40.21	40.86
Tetra	30.54	27.48
Penta	6.62	5.31
Hexa	0.70	0.52
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.0733	9.06	9.38
A1242	23+24/31+28	0.6741	83.3	86.2
A1254SED	61/100	0.0621	7.68	
A1254BIO	69+75+82/149+153+138	0.0346		4.43
A1260	102/180		0.00	0.00
A1268	115/194		0.00	0.00

Ortho Cl / biphenyl Residue = 1.51

Meta + Para Cl / biphenyl Residue = 1.61

Total Cl / biphenyl Residue = 3.12

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

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PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 10:49:29
 Lab Sample ID: AS24847LRR2
 LRF ID: LCS-07RR2
 Lab File ID: GC24-1221-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.69	188.7	22	0.0733	0.389	0.0437	0.274	J
3	12.70	188.7			0.885	125		U
4	12.80	188.7			0.164	0.164		U
5-4	16.28	223.1	499	0.402	1.80	0.0155	0.0625	
5-10	16.51	223.1	85		0.0119	0.0625		U
6	14.25	223.1	131	0.0348	0.156	0.0166	0.0274	
7	14.57	223.1	175	0.0866	0.388	0.0335	0.0434	
8	14.76	223.1	707	0.686	3.08	0.0451	0.320	
9	15.31	223.1			0.0604	3.13		U
10	15.41	257.5	147	0.0524	0.203	0.0109	0.0128	
11	15.86	257.5			0.0173	3.13		U
12	15.92	223.1			0.0571	3.13		U
13	16.12	223.1	9		0.00804	0.0122		U
14	16.25	249.0	1039	0.329	1.32	0.0138	0.0845	
15	16.34	257.5	530	0.366	1.42	0.0171	0.0845	
16	16.64	257.5	145	0.0345	0.134	0.00417	0.00594	
17	16.89	257.5	935	0.371	1.44	0.0179	0.0891	
19	17.34	267.9	4		0.0246	3.13		U
20	17.52	257.5	5		0.00281	0.00281		U
21	17.64	257.5	284	0.0845	0.328	0.00318	0.0164	
22	17.72	257.5	182	0.0445	0.173	0.00339	0.00731	
23	17.93	257.5	1347	0.320	1.24	0.0181	0.0942	
24	17.97	257.5	1663	0.354	1.37	0.0166	0.121	
25	18.33	259.5	1185	0.334	1.29	0.0137	0.0907	
26	18.56	258.7	737	0.218	0.842	0.0134	0.0662	
27	18.79	292.0	330	0.0920	0.315	0.00507	0.0203	B
28	18.92	257.5			0.0272	3.13		U
29	19.07	292.0	118	0.0372	0.128	0.00639	0.00914	
30	19.18	257.5			0.0248	3.13		U
31	19.35	292.0	734	0.236	0.809	0.0252	0.109	
32	19.52	292.0	684	0.116	0.396	0.0125	0.0525	
33	19.64	292.0	719	0.0827	0.283	0.0119	0.0228	B
34	19.68	292.0	356	0.0641	0.219	0.00506	0.0228	B
35	19.84	292.0			0.0204	3.13		U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
36	19.89	257.5	16			0.0227	3.13	U
37	20.09	292.0	1036	0.229	0.783	0.0781	0.0982	
38	20.22	272.4	640	0.177	0.650	0.0114	0.0594	
39	20.57	292.0	1110	0.198	0.678	0.0134	0.0937	
41	20.77	326.4	38			0.0302	3.13	U
42	20.84	292.0	320	0.0697	0.239	0.0150	0.0215	
43	21.07	298.9	41			0.0301	3.13	U
44	21.23	298.9	121	0.0204	0.0682	0.00171	0.00503	B
45	21.41	292.0	173	0.0293	0.100	0.0101	0.0101	
46	21.57	292.0	634	0.0707	0.242	0.00870	0.0434	
47	21.70	292.0	1073	0.154	0.528	0.0165	0.0777	
48	21.82	293.5	1216	0.240	0.816	0.0247	0.164	
49	22.14	324.7	140	0.0296	0.0912	0.00942	0.0117	
50	22.43	292.0	1000	0.173	0.593	0.0340	0.0799	
51	22.68	326.4	182	0.0677	0.208	0.00889	0.0411	B
52	22.80	326.4	37	0.00959	0.0294	0.00679	0.00679	
53	22.92	326.4	236	0.0350	0.107	0.00741	0.0411	J
54	23.11	326.4	209	0.0226	0.0693	0.00273	0.0169	
55	23.43	326.4	27	0.00266	0.00815	0.000723	0.00128	
56	23.50	326.4	60	0.0134	0.0411	0.00391	0.00685	
57	23.70	326.4	207	0.0302	0.0926	0.0266	0.0266	
58	23.88	326.4	276	0.0424	0.130	0.00650	0.0265	
59	24.03	326.4	209	0.0302	0.0924	0.00289	0.0160	
60	24.20	360.9	75	0.0101	0.0280	0.00378	0.0171	J
61	24.28	326.4	365	0.0621	0.190	0.00720	0.0487	
62	24.56	360.9				0.0268	3.13	U
63	24.66	326.4	100	0.0139	0.0425	0.00669	0.0100	
64	24.95	360.9	56			0.00710	0.0388	U
65	25.07	350.5	52	0.00465	0.0133	0.00266	0.00663	J
66	25.15	360.9	41			0.0219	0.0219	U
67	25.22	336.8	50	0.00825	0.0245	0.00328	0.00594	
68	25.27	326.4	148			0.0391	3.13	U
69	25.41	337.5	344	0.0315	0.0932	0.0115	0.0914	J
70	25.51	360.9				0.0242	3.13	U
71	25.80	347.8				0.00281	0.00461	U
72	26.00	336.8				0.00262	0.00262	U
73	26.27	360.9				0.00678	0.00891	U
74	26.39	347.8	245	0.0281	0.0808	0.00664	0.0309	J
75	26.55	360.9				0.0181	0.0673	U
76	26.65	360.9				0.0195	3.13	U
77	27.08	360.9				0.00505	0.0388	U
78	27.15	395.3				0.00507	0.0334	U
79	27.36	360.9				0.00601	0.00601	U
80	27.51	360.9				0.00107	0.00594	U
82	27.71	360.9	77			0.0120	0.0617	U
83	27.90	360.9				0.00461	0.00571	U
84	28.10	360.9				0.000190	0.000591	U
85	28.44	395.3				0.00621	0.0251	U
87	28.74	395.3				0.00349	0.00914	U
88	28.89	395.3				0.0115	0.0822	U
89	29.02	360.9				0.00126	0.00457	U
90	29.19	395.3				0.00802	0.0388	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
91	29.45	360.9				0.00537	0.00537	U
92	29.79	394.3				0.00170	0.0107	U
93	30.17	394.3				0.00993	0.0731	U
94	30.43	394.3				0.00618	0.0388	U
95	30.72	382.2				0.00663	0.0180	U
96	30.97	429.8				0.000780	0.00151	U
98	31.14	395.3				0.00250	0.00250	U
99	31.51	429.8				0.00120	0.00891	U
100	31.74	395.3				0.0571	0.0571	U
101	32.04	429.8				0.00594	0.00594	U
102	32.21	395.3				0.0272	0.139	U
103	32.47	395.3				0.00232	0.00959	U
104	32.77	395.3				0.00155	0.00548	U
105	33.13	429.8				0.00240	0.00982	U
106	34.26	395.3				0.0212	0.0292	U
107	34.52	395.3				0.00801	0.00959	U
108	35.37	429.8				0.00168	0.00548	U
109	35.60	429.8				0.0166	0.0959	U
110	36.13	429.8				0.0185	0.0982	U
111	37.26	395.3				0.00213	0.00213	U
112	38.82	429.8				0.00277	0.0126	U
113	39.32	464.2				0.00374	0.0113	U
114	40.24	464.2				0.00528	0.00528	U
115	41.63	429.8				0.00500	0.0411	U
116	42.51	429.8				0.00668	0.00668	U
117	47.59	464.2				0.00189	0.0155	U
118	53.54	498.6				0.000763	0.000763	U

Total Concentration = 6.22 ng/L

1.22 4.11

Total Nanomoles = 0.024

Average Molecular Weight = 261.7

Number of Calibrated Peaks Found = 60

OCN Internal Standard Retention Time = 46.02 minutes

OCN Internal Standard Peak Area = 88755.3

FDBC Internal Standard Retention Time = 21.74 minutes

FDBC Internal Standard Peak Area = 80018.6

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 (518) 346-4592 Fax (518) 381-6055

PCB Congener Amount Report

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Customer: GENERAL ELECTRIC COMPANY
 Sample Description: LAB CONTROL SPIKE
 Comment: HUDSON RIVER RAMP;COC150812091434PACE
 Date Acquired: 08/25/2015 10:49:29
 Lab Sample ID: AS24847LRR2
 LRF ID: LCS-07RR2
 Lab File ID: GC24-1221-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
2	11.69	1:1	001	0.2540	2	1.179	1.635
3	12.70	1:0	002		3	-	-
4	12.80	1:0	003		4	-	-
5-4	16.28	2:2	004	0.3538	2-2	6.459	7.577
5-10	16.51	2:2	010		26	-	-
6	14.25	2:1	007 009	0.3096	24; 25	0.559	0.656
7	14.57	2:1	006	0.3166	2-3	1.391	1.632
8	14.76	2:1	005 008	0.3207	23; 2-4	11.028	12.938
9	15.31	2:0	014		35	-	-
10	15.41	3:3	019	0.3349	26-2	0.841	0.855
11	15.86	3:2	030		246	-	-
12	15.92	2:0	011		3-3	-	-
13	16.12	2:0	012 013		34; 3-4	-	-
14	16.25	2:0 3:2	015 018	0.3531	4-4; 25-2	5.295	5.566
15	16.34	3:2	017	0.3551	24-2	5.888	5.985
16	16.64	3:2	024 027	0.3616	236; 26-3	0.554	0.563
17	16.89	3:2	016 032	0.3670	23-2; 26-4	5.968	6.066
19	17.34	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.52	3:1	029		245	-	-
21	17.64	3:1	026	0.3833	25-3	1.358	1.380
22	17.72	3:1	025	0.3850	24-3	0.715	0.727
23	17.93	3:1	031	0.3896	25-4	5.151	5.236
24	17.97	3:1 4:3	028 050	0.3905	24-4; 246-2	5.684	5.777
25	18.33	3:1 4:3	020 021 033 053	0.3983	23-3; 234; 34-2; 25-26	5.365	5.411
26	18.56	3:1 4:3	022 051	0.4033	23-4; 24-26	3.502	3.543
27	18.79	4:3	045	0.4083	236-2	1.479	1.326
28	18.92	3:0	036		35-3	-	-
29	19.07	4:3	046	0.4144	23-26	0.598	0.536
30	19.18	3:0	039		35-4	-	-
31	19.35	4:2	052 069 073	0.4205	25-25; 246-3; 26-35	3.798	3.405
32	19.52	4:2	043 049	0.4242	235-2; 24-25	1.860	1.667
33	19.64	4:2	038 047	0.4268	345; 24-24	1.329	1.191
34	19.68	4:2	048 075	0.4276	245-2; 246-4	1.030	0.923
35	19.84	4:2	062 065		2346; 2356	-	-
36	19.89	3:0	035		34-3	-	-
37	20.09	5:4 4:2	104 044	0.4365	246-26; 23-25	3.674	3.293
38	20.22	3:0 4:2	037 042 059	0.4394	34-4; 23-24; 236-3	2.844	2.732

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak 1.5 Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
39	20.57	4:2	041 064 071 072	0.4470	234-2; 236-4; 26-34; 25-35	3.181	2.852
41	20.77	5:4	068 096		24-35; 236-26	-	-
42	20.84	4:2	040	0.4528	23-23	1.121	1.005
43	21.07	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.23	4:1 5:3	058 067 100	0.4613	23-35; 245-3; 246-24	0.328	0.287
45	21.41	4:1	063	0.4652	235-4	0.470	0.421
46	21.57	4:1 5:3	074 094 061	0.4687	245-4; 235-26; 2345	1.137	1.019
47	21.70	4:1	070	0.4715	25-34	2.477	2.221
48	21.82	4:1 5:3	066 076 098 080 093 095 102 088	0.4741	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.851	3.435
49	22.14	4:1 5:3	055 091 121	0.4811	234-3; 236-24; 246-35	0.476	0.384
50	22.43	4:1	056 060	0.4874	23-34; 234-4	2.782	2.494
51	22.68	5:3 6:4	084 092 155	0.4928	236-23; 235-25; 246-246	1.089	0.873
52	22.80	5:3	089	0.4954	234-26	0.154	0.124
53	22.92	5:2	090 101	0.4980	235-24; 245-25	0.562	0.451
54	23.11	5:2	079 099 113	0.5022	34-35; 245-24; 236-35	0.364	0.292
55	23.43	5:2 6:4	119 150	0.5091	246-34; 236-246	0.043	0.034
56	23.50	5:2	078 083 112 108	0.5106	345-3; 235-23; 2356-3; 2346-3	0.216	0.173
57	23.70	5:2 6:4	097 152 086	0.5150	245-23; 2356-26; 2345-2	0.486	0.390
58	23.88	5:2	081 087 117 125 115 145	0.5189	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.681	0.546
59	24.03	5:2	116 085 111	0.5222	23456; 234-24; 235-35	0.485	0.389
60	24.20	6:4	120 136	0.5259	245-35; 236-236	0.163	0.118
61	24.28	5:2	077 110 148	0.5276	34-34; 236-34; 235-246	0.999	0.801
62	24.56	6:3	154		245-246	-	-
63	24.66	5:2	082	0.5359	234-23	0.223	0.179
64	24.95	6:3	151		2356-25	-	-
65	25.07	5:1 6:3	124 135	0.5448	345-25; 235-236	0.075	0.056
66	25.15	6:3	144		2346-25	-	-
67	25.22	5:1 6:3	107 109 147	0.5480	234-35; 235-34; 2356-24	0.133	0.103
68	25.27	5:1	123		345-24	-	-
69	25.41	5:1 6:3	106 118 139 149	0.5522	2345-3; 245-34; 2346-24; 236-245	0.506	0.392
70	25.51	6:3	140		234-246	-	-
71	25.80	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.00	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.27	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.39	5:1 6:3	105 132 161	0.5734	234-34; 234-236; 2346-35	0.452	0.340
75	26.55	6:2	153		245-245	-	-
76	26.65	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.08	6:2	141		2345-25	-	-
78	27.15	7:4	179		2356-236	-	-
79	27.36	6:2	137		2345-24	-	-
80	27.51	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.71	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.90	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.10	6:2	126 129		345-34; 2345-23	-	-
85	28.44	7:3	166 178		23456-4; 2356-235	-	-
87	28.74	7:3	175 159		2346-235; 2345-35	-	-
88	28.89	7:3	182 187		2345-246; 2356-245	-	-
89	29.02	6:2	128 162		234-234; 235-345	-	-
90	29.19	7:3	183		2346-245	-	-
91	29.45	6:1	167		245-345	-	-
92	29.79	7:3	185		23456-25	-	-
93	30.17	7:3	174 181		2345-236; 23456-24	-	-
94	30.43	7:3	177		2356-234	-	-
95	30.72	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.97	8:4	157 202		234-345; 2356-2356	-	-
98	31.14	7:3	173		23456-23	-	-
99	31.51	8:4	201		2346-2356	-	-
100	31.74	7:2	172 204		2345-235; 23456-246	-	-
101	32.04	8:4	192 197		23456-35; 2346-2346	-	-
102	32.21	7:2	180		2345-245	-	-
103	32.47	7:2	193		2356-345	-	-
104	32.77	7:2	191		2346-345	-	-
105	33.13	8:4	200 169		23456-236; 345-345	-	-

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

DB-1 Peak ^{1,5} Retention Number	Time	T-CL:O-CL	IUPAC # ²	RRT	Congeners ³	Weight Percent	Mole Percent
106	34.26	7:2	170		2345-234	-	-
107	34.52	7:2	190		23456-34	-	-
108	35.37	8:3	198		23456-235	-	-
109	35.60	8:3	199		2345-2356	-	-
110	36.13	8:3	196 203		2345-2346; 23456-245	-	-
111	37.26	7:1	189		2345-345	-	-
112	38.82	8:3	195		23456-234	-	-
113	39.32	9:4	208		23456-2356	-	-
114	40.24	9:4	207		23456-2346	-	-
115	41.63	8:2	194		2345-2345	-	-
116	42.51	8:2	205		23456-345	-	-
117	47.59	9:3	206		23456-2345	-	-
118	53.54	10:4	209		23456-23456	-	-

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 6.22 ng/L

Total Nanomoles = 0.024

Average Molecular Weight = 261.7

Number of Calibrated Peaks Found = 60

¹ - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)
 PK 40 (68) now elutes in PK 41 (68,96)
 PK 86 (166) now elutes in PK 85 (166,178)
 PK 97 (157) now elutes in PK 96 (157,202)

² - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

³ - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

⁴ - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 (44 ,104)	104
48 (66 ,76,98,80,93, 95 , 102 ,88)	80,88,93
56 (78, 83 ,112,108)	108
61 (77 , 110 ,148)	77
72 (122 ,131,133,142)	122
89 (128 ,162)	162
105(200 ,169)	169

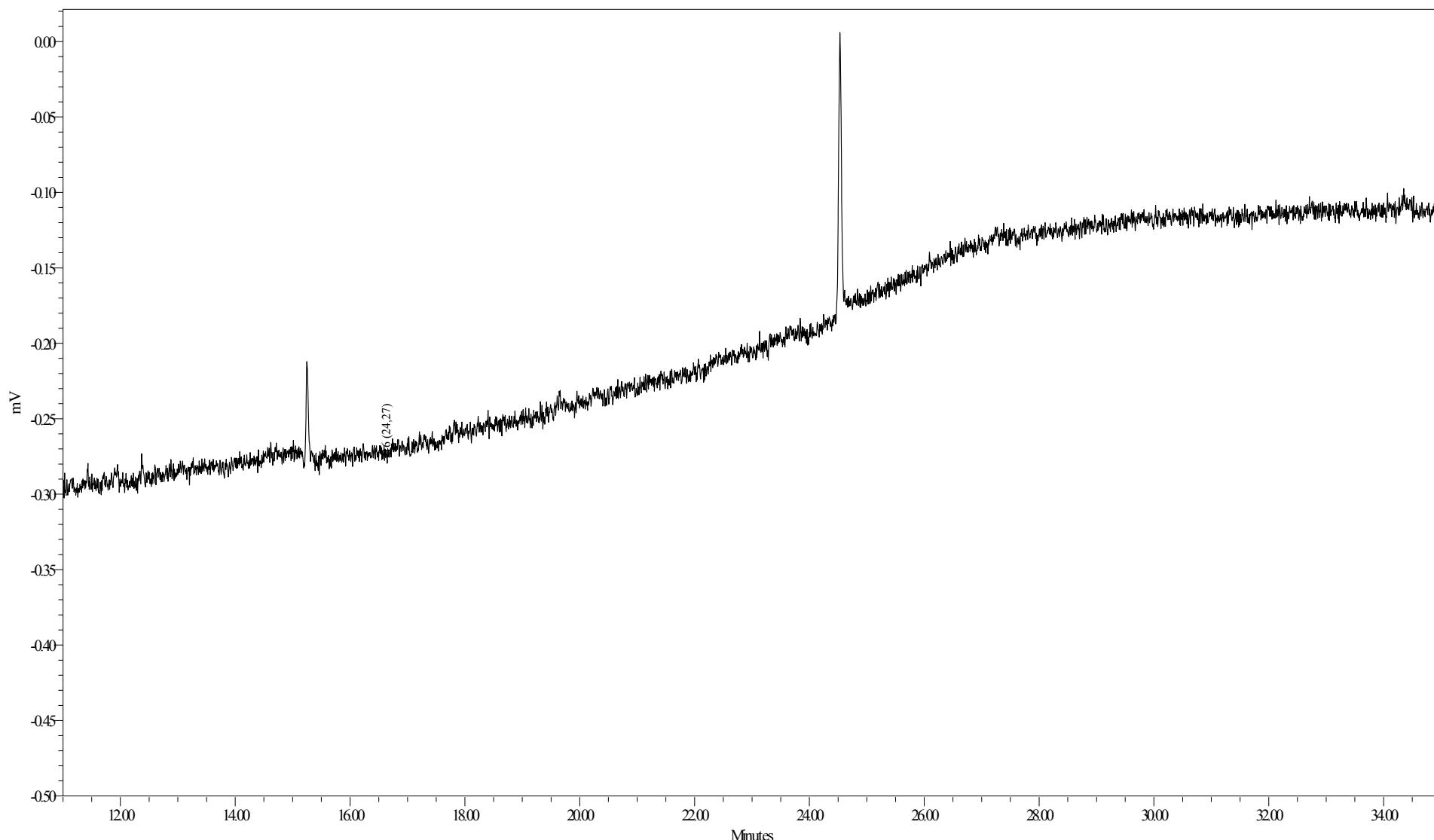
5

Note: NYSDOH-ELAP does not currently offer NELAC certification for this method.

Pace Analytical Services - NYLab, 2190 Technology Drive, Schenectady, NY 12308

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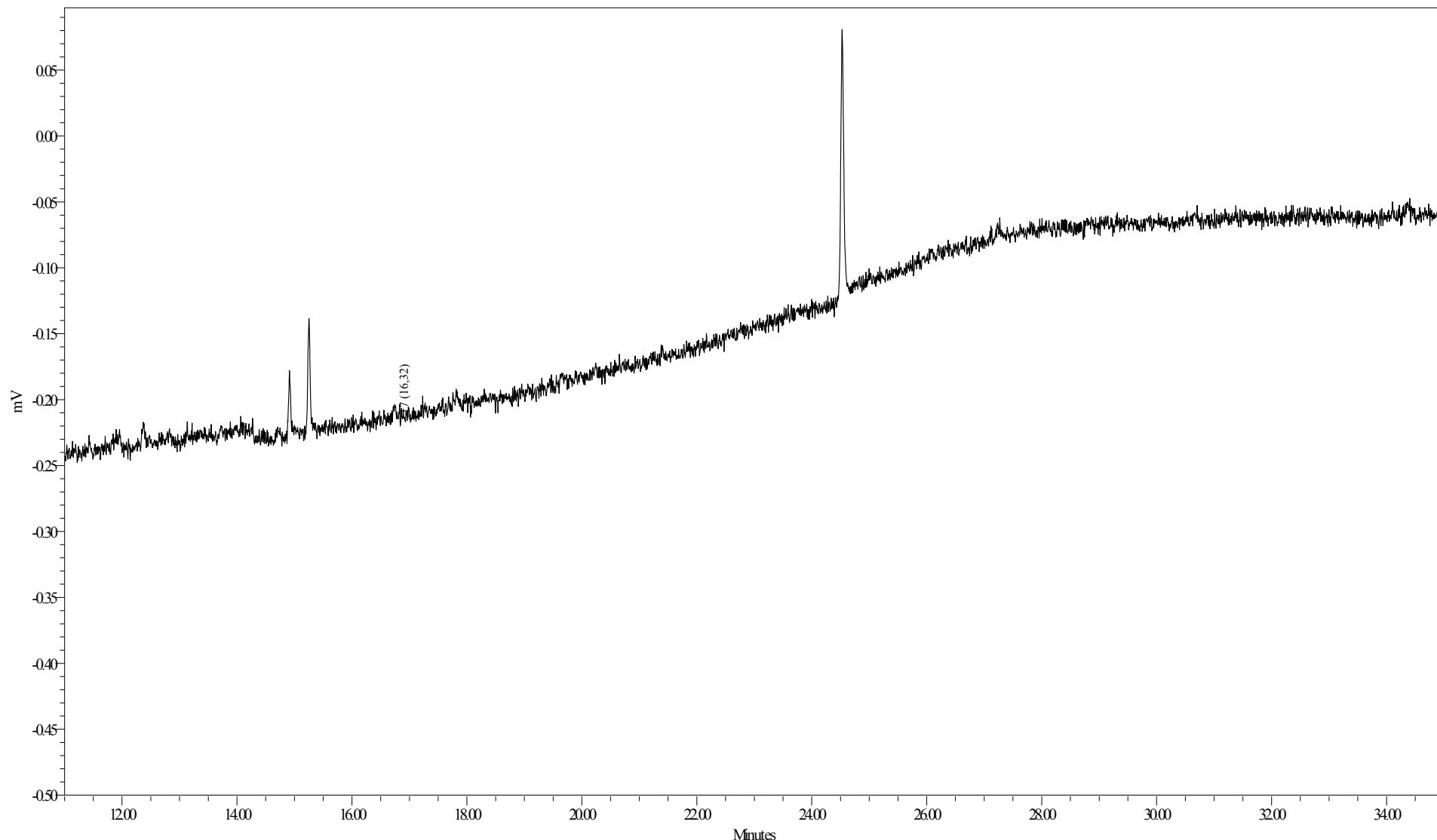
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Sample ID: HEXANE BLANK
Date Acquired: 8/22/2015 6:32:25 PM EDT

Sample Amount (L): 1.0000
Dilution: 1
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1219-3|m

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Sample Name:
Sample ID:
Date Acquired:

150824B03
HEXANE BLANK
8/24/2015 4:14:36 PM EDT

Sample Amount (L): 1.0000
Dilution: 1
Processing Method: CSGB LLIX 073115
LIMS File ID: GC24-1220-3|m|

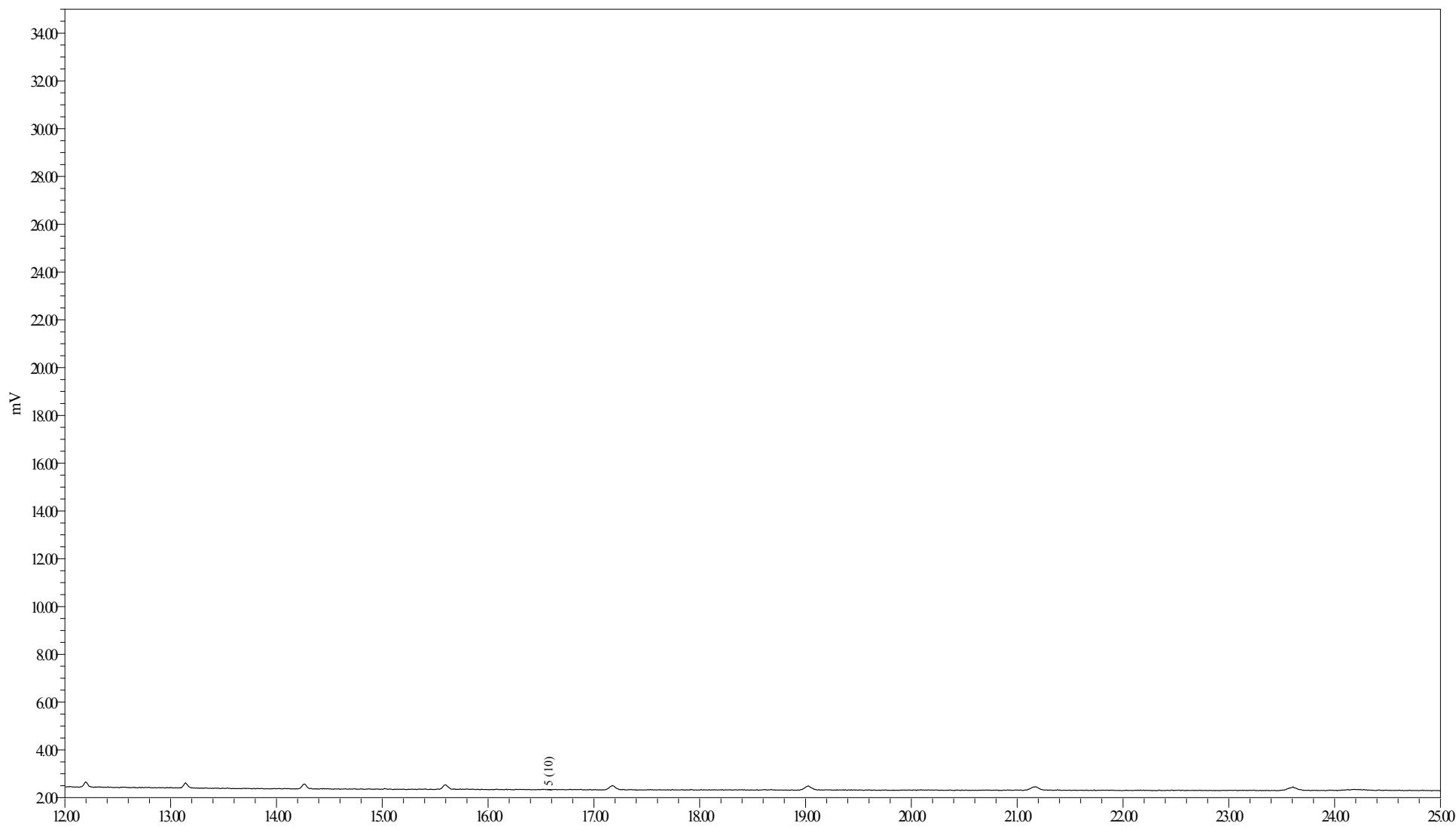
Sample Name: 150824B03

1 of 1

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Sample Name: 150822B03
Sample ID: HEXANE BLANK
Date Acquired: 8/22/2015 5:59:02 PM EDT

Sample Amount: 1.0000
Dilution: 1
Processing Method: GC30_410_1X_052015
LIMS File ID: GC30-482-3 [m]

MDL STUDIES

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column	PCBs (Aroclors)	Aroclor 1016	12674-11-2	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1221	11104-28-2	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1232	11141-16-5	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1242	53469-21-9	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1248	12672-29-6	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1254	11097-69-1	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Aroclor 1260	11096-82-5	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
		Total PCBs (sum of Aroclors)	1336-36-3	S-NY-O-273-rev.03	ug/L	0.0093	0.0250
	PCBs (1 L)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (S-NY-O-294-rev.01)	ng/L	8.04	32.2
		02	2051-60-7	S-NY-O-294-rev.01	ng/L	0.285	2.19
		03	2051-61-8	S-NY-O-294-rev.01	ng/L	5.51	1000
		04	2051-62-9	S-NY-O-294-rev.01	ng/L	1.15	1.28
		05-4	13029-08-8	S-NY-O-294-rev.01	ng/L	0.150	0.500
		05-10	33146-45-1	S-NY-O-294-rev.01	ng/L	0.0742	0.500
		06	33284-50-3 34883-39-1	S-NY-O-294-rev.01	ng/L	0.0735	0.219
		07	25569-80-6	S-NY-O-294-rev.01	ng/L	0.311	0.347
		08	16605-91-7 34883-43-7	S-NY-O-294-rev.01	ng/L	0.426	2.56
		09	34883-41-5	S-NY-O-294-rev.01	ng/L	0.859	25.0
		10	38444-73-4	S-NY-O-294-rev.01	ng/L	0.0359	0.102
		11	35693-92-6	S-NY-O-294-rev.01	ng/L	0.104	25.0
		12	2050-67-1	S-NY-O-294-rev.01	ng/L	0.396	25.0
		13	2974-92-7 2974-90-5	S-NY-O-294-rev.01	ng/L	0.0396	0.0975
		14	2050-68-2 37680-65-2	S-NY-O-294-rev.01	ng/L	0.132	0.676
		15	37680-66-3	S-NY-O-294-rev.01	ng/L	0.140	0.676
		16	55702-45-9 38444-76-7	S-NY-O-294-rev.01	ng/L	0.0320	0.0475
		17	38444-78-9 38444-77-8	S-NY-O-294-rev.01	ng/L	0.121	0.713
		19	55720-44-0 37680-68-5 15968-05-5	S-NY-O-294-rev.01	ng/L	0.131	25.0
		20	15862-07-4	S-NY-O-294-rev.01	ng/L	0.00734	0.0194
		21	38444-81-4	S-NY-O-294-rev.01	ng/L	0.0343	0.132
		22	55712-37-3	S-NY-O-294-rev.01	ng/L	0.0219	0.0585
		23	16606-02-3	S-NY-O-294-rev.01	ng/L	0.111	0.753
		24	7012-37-5 62796-65-0	S-NY-O-294-rev.01	ng/L	0.149	0.964
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	S-NY-O-294-rev.01	ng/L	0.142	0.726
		26	38444-85-8 68194-04-7	S-NY-O-294-rev.01	ng/L	0.112	0.530
		27	70362-45-7	S-NY-O-294-rev.01	ng/L	0.0864	0.163
		28	38444-87-0	S-NY-O-294-rev.01	ng/L	0.156	25.0
		29	41464-47-5	S-NY-O-294-rev.01	ng/L	0.0356	0.0731
		30	38444-88-1	S-NY-O-294-rev.01	ng/L	0.0623	25.0
		31	35693-99-3 60233-24-1 74338-23-1	S-NY-O-294-rev.01	ng/L	0.127	0.872
		32	70362-46-8 41464-40-8	S-NY-O-294-rev.01	ng/L	0.125	0.420
		33	53555-66-1 2437-79-8	S-NY-O-294-rev.01	ng/L	0.0782	0.183
		34	70362-47-9 32598-12-2	S-NY-O-294-rev.01	ng/L	0.0415	0.183
		35	54230-22-7 33284-54-7	S-NY-O-294-rev.01	ng/L	0.0582	25.0
		36	37680-69-6	S-NY-O-294-rev.01	ng/L	0.0934	25.0
		37	56558-16-8 41464-39-5	S-NY-O-294-rev.01	ng/L	0.251	0.786

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column (Continued)	PCBs (1 liter) (Continued)	38	38444-90-5 36559-22-5 74472-33-6	S-NY-O-294-rev.01	ng/L	0.122	0.475
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	S-NY-O-294-rev.01	ng/L	0.102	0.749
		41	73575-52-7 73575-54-9	S-NY-O-294-rev.01	ng/L	0.101	25.0
		42	38444-93-8	S-NY-O-294-rev.01	ng/L	0.0358	0.172
		43	70424-67-8 60145-21-3	S-NY-O-294-rev.01	ng/L	0.142	25.0
		44	41464-49-7 73575-53-8 39485-83-1	S-NY-O-294-rev.01	ng/L	0.0226	0.0402
		45	74472-34-7	S-NY-O-294-rev.01	ng/L	0.0333	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	S-NY-O-294-rev.01	ng/L	0.0721	0.347
		47	32598-11-1	S-NY-O-294-rev.01	ng/L	0.106	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	S-NY-O-294-rev.01	ng/L	0.216	1.32
		49	74338-24-2 68194-05-8 56558-18-0	S-NY-O-294-rev.01	ng/L	0.0239	0.0932
		50	41464-43-1 33025-41-1	S-NY-O-294-rev.01	ng/L	0.122	0.640
		51	52663-60-2 52663-61-3 33979-03-2	S-NY-O-294-rev.01	ng/L	0.0989	0.329
		52	73575-57-2	S-NY-O-294-rev.01	ng/L	0.0132	0.0366
		53	68194-07-0 37680-73-2	S-NY-O-294-rev.01	ng/L	0.0430	0.329
		54	41464-48-6 38380-01-7 68194-10-5	S-NY-O-294-rev.01	ng/L	0.0172	0.135
		55	56558-17-9 68194-08-1	S-NY-O-294-rev.01	ng/L	0.00657	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	S-NY-O-294-rev.01	ng/L	0.0251	0.0548
		57	41464-51-1 68194-09-2 55312-69-1	S-NY-O-294-rev.01	ng/L	0.0653	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	S-NY-O-294-rev.01	ng/L	0.0479	0.212
		59	18259-05-7 65510-45-4	S-NY-O-294-rev.01	ng/L	0.0224	0.128
		60	68194-12-7 38411-22-2	S-NY-O-294-rev.01	ng/L	0.0379	0.137
		61	32598-13-3 38380-03-9 74472-41-6	S-NY-O-294-rev.01	ng/L	0.0690	0.389
		62	60145-22-4	S-NY-O-294-rev.01	ng/L	0.116	25.0
		63	52663-62-4	S-NY-O-294-rev.01	ng/L	0.0268	0.0804
		64	52663-63-5	S-NY-O-294-rev.01	ng/L	0.0497	0.311
		65	70424-70-3 52744-13-5	S-NY-O-294-rev.01	ng/L	0.0150	0.0530

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column (Continued)	PCBs (1 L) (Continued)	66	68194-14-9	S-NY-O-294-rev.01	ng/L	0.0349	0.110
		67	70424-68-9 74472-35-8 68194-13-8	S-NY-O-294-rev.01	ng/L	0.0198	0.0475
		68	65510-44-3	S-NY-O-294-rev.01	ng/L	0.158	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	S-NY-O-294-rev.01	ng/L	0.154	0.731
		70	59291-64-4	S-NY-O-294-rev.01	ng/L	0.102	25.0
		71	74472-37-0 52704-70-8 68194-15-0	S-NY-O-294-rev.01	ng/L	0.0342	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	S-NY-O-294-rev.01	ng/L	0.00525	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	S-NY-O-294-rev.01	ng/L	0.0258	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	S-NY-O-294-rev.01	ng/L	0.0335	0.248
		75	35065-27-1	S-NY-O-294-rev.01	ng/L	0.0829	0.538
		76	39635-33-1 59291-65-5 74472-48-3	S-NY-O-294-rev.01	ng/L	0.0915	25.0
		77	52712-04-6	S-NY-O-294-rev.01	ng/L	0.0445	0.311
		78	52663-64-6	S-NY-O-294-rev.01	ng/L	0.0542	0.267
		79	35694-06-5	S-NY-O-294-rev.01	ng/L	0.0298	0.0298
		80	52663-66-8 52663-65-7	S-NY-O-294-rev.01	ng/L	0.00954	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	S-NY-O-294-rev.01	ng/L	0.0665	0.493
		83	74472-42-7 41411-62-5 74472-49-4	S-NY-O-294-rev.01	ng/L	0.0310	0.0457
		84	57465-28-8 55215-18-4	S-NY-O-294-rev.01	ng/L	0.00213	0.00473
		85	41411-63-6 52663-67-9	S-NY-O-294-rev.01	ng/L	0.0563	0.201
		87	40186-70-7 39635-35-3	S-NY-O-294-rev.01	ng/L	0.0298	0.0731
		88	60145-23-5 52663-68-0	S-NY-O-294-rev.01	ng/L	0.0923	0.658
		89	38380-07-3 39635-34-2	S-NY-O-294-rev.01	ng/L	0.0213	0.0366
		90	52663-69-1	S-NY-O-294-rev.01	ng/L	0.0576	0.311
		91	52663-72-6	S-NY-O-294-rev.01	ng/L	0.0299	0.0299
		92	52712-05-7	S-NY-O-294-rev.01	ng/L	0.0169	0.0859
		93	38411-25-5 74472-47-2	S-NY-O-294-rev.01	ng/L	0.0993	0.585
		94	52663-70-4	S-NY-O-294-rev.01	ng/L	0.0637	0.311
		95	38380-08-4 52663-71-5	S-NY-O-294-rev.01	ng/L	0.0406	0.144
		96	69782-90-7 2136-99-4	S-NY-O-294-rev.01	ng/L	0.00708	0.0121
		98	68194-16-1	S-NY-O-294-rev.01	ng/L	0.00746	0.0139
		99	40186-71-8	S-NY-O-294-rev.01	ng/L	0.0412	0.0713
		100	52663-74-8 74472-52-9	S-NY-O-294-rev.01	ng/L	0.0559	0.102
		101	74472-51-8 33091-17-7	S-NY-O-294-rev.01	ng/L	0.0147	0.0402
		102	35065-29-3	S-NY-O-294-rev.01	ng/L	0.156	1.11
		103	69782-91-8	S-NY-O-294-rev.01	ng/L	0.0395	0.0768
		104	74472-50-7	S-NY-O-294-rev.01	ng/L	0.0224	0.0438
		105	52663-73-7 32774-16-6	S-NY-O-294-rev.01	ng/L	0.0159	0.0786
		106	35065-30-6	S-NY-O-294-rev.01	ng/L	0.182	0.234

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
PCBs (1 L) (Continued)	PCBs (1 L) (Continued)	107	41411-64-7	S-NY-O-294-rev.01	ng/L	0.0564	0.0768
		108	68194-17-2	S-NY-O-294-rev.01	ng/L	0.0234	0.0438
		109	52663-75-9	S-NY-O-294-rev.01	ng/L	0.0961	0.768
		110	42740-50-1 52663-76-0	S-NY-O-294-rev.01	ng/L	0.176	0.786
		111	39635-31-9	S-NY-O-294-rev.01	ng/L	0.0207	0.0207
		112	52663-78-2	S-NY-O-294-rev.01	ng/L	0.0217	0.101
		113	52663-77-1	S-NY-O-294-rev.01	ng/L	0.0429	0.0903
		114 (surrogate)	52663-79-3	S-NY-O-294-rev.01	ng/L	0.0138	0.0340
		115	35694-08-7	S-NY-O-294-rev.01	ng/L	0.0710	0.329
		116	74472-53-0	S-NY-O-294-rev.01	ng/L	0.0762	0.0762
		117	40186-72-9	S-NY-O-294-rev.01	ng/L	0.0775	0.124
		118	2051-24-3	S-NY-O-294-rev.01	ng/L	0.00690	0.00690
		Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (S-NY-O-294-rev.01)	ng/L	1.22	4.11
		02	2051-60-7	S-NY-O-294-rev.01	ng/L	0.0437	0.274
		03	2051-61-8	S-NY-O-294-rev.01	ng/L	0.885	125
		04	2051-62-9	S-NY-O-294-rev.01	ng/L	0.164	0.164
		05-4	13029-08-8	S-NY-O-294-rev.01	ng/L	0.0155	0.0625
		05-10	33146-45-1	S-NY-O-294-rev.01	ng/L	0.0119	0.0625
		06	33284-50-3 34883-39-1	S-NY-O-294-rev.01	ng/L	0.0166	0.0274
		07	25569-80-6	S-NY-O-294-rev.01	ng/L	0.0335	0.0434
		08	16605-91-7 34883-43-7	S-NY-O-294-rev.01	ng/L	0.0451	0.320
		09	34883-41-5	S-NY-O-294-rev.01	ng/L	0.0604	3.13
		10	38444-73-4	S-NY-O-294-rev.01	ng/L	0.0109	0.0128
		11	35693-92-6	S-NY-O-294-rev.01	ng/L	0.0173	3.13
		12	2050-67-1	S-NY-O-294-rev.01	ng/L	0.0571	3.13
		13	2974-92-7 2974-90-5	S-NY-O-294-rev.01	ng/L	0.00804	0.0122
		14	2050-68-2 37680-65-2	S-NY-O-294-rev.01	ng/L	0.0138	0.0845
		15	37680-66-3	S-NY-O-294-rev.01	ng/L	0.0171	0.0845
		16	55702-45-9 38444-76-7	S-NY-O-294-rev.01	ng/L	0.00417	0.00594
		17	38444-78-9 38444-77-8	S-NY-O-294-rev.01	ng/L	0.0179	0.0891
		19	55720-44-0 37680-68-5 15968-05-5	S-NY-O-294-rev.01	ng/L	0.0246	3.13
		20	15862-07-4	S-NY-O-294-rev.01	ng/L	0.00281	0.00281
		21	38444-81-4	S-NY-O-294-rev.01	ng/L	0.00318	0.0164
		22	55712-37-3	S-NY-O-294-rev.01	ng/L	0.00339	0.00731
		23	16606-02-3	S-NY-O-294-rev.01	ng/L	0.0181	0.0942
		24	7012-37-5 62796-65-0	S-NY-O-294-rev.01	ng/L	0.0166	0.121
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	S-NY-O-294-rev.01	ng/L	0.0137	0.0907
		26	38444-85-8 68194-04-7	S-NY-O-294-rev.01	ng/L	0.0134	0.0662
		27	70362-45-7	S-NY-O-294-rev.01	ng/L	0.00507	0.0203
		28	38444-87-0	S-NY-O-294-rev.01	ng/L	0.0272	3.13
		29	41464-47-5	S-NY-O-294-rev.01	ng/L	0.00639	0.00914
		30	38444-88-1	S-NY-O-294-rev.01	ng/L	0.0248	3.13
		31	35693-99-3 60233-24-1 74338-23-1	S-NY-O-294-rev.01	ng/L	0.0252	0.109
		32	70362-46-8 41464-40-8	S-NY-O-294-rev.01	ng/L	0.0125	0.0525
		33	53555-66-1 2437-79-8	S-NY-O-294-rev.01	ng/L	0.0119	0.0228
		34	70362-47-9 32598-12-2	S-NY-O-294-rev.01	ng/L	0.00506	0.0228
		35	54230-22-7 33284-54-7	S-NY-O-294-rev.01	ng/L	0.0204	3.13
		36	37680-69-6	S-NY-O-294-rev.01	ng/L	0.0227	3.13

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column (Continued)	PCBs (8 liter) (Continued)	37	56558-16-8 41464-39-5	S-NY-O-294-rev.01	ng/L	0.0781	0.0982
		38	38444-90-5 36559-22-5 74472-33-6	S-NY-O-294-rev.01	ng/L	0.0114	0.0594
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	S-NY-O-294-rev.01	ng/L	0.0134	0.0937
		41	73575-52-7 73575-54-9	S-NY-O-294-rev.01	ng/L	0.0302	3.13
		42	38444-93-8	S-NY-O-294-rev.01	ng/L	0.0150	0.0215
		43	70424-67-8 60145-21-3	S-NY-O-294-rev.01	ng/L	0.0301	3.13
		44	41464-49-7 73575-53-8 39485-83-1	S-NY-O-294-rev.01	ng/L	0.00171	0.00503
		45	74472-34-7	S-NY-O-294-rev.01	ng/L	0.0101	0.0101
		46	32690-93-0 73575-55-0 33284-53-6	S-NY-O-294-rev.01	ng/L	0.00870	0.0434
		47	32598-11-1	S-NY-O-294-rev.01	ng/L	0.0165	0.0777
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	S-NY-O-294-rev.01	ng/L	0.0247	0.164
		49	74338-24-2 68194-05-8 56558-18-0	S-NY-O-294-rev.01	ng/L	0.00942	0.0117
		50	41464-43-1 33025-41-1	S-NY-O-294-rev.01	ng/L	0.0340	0.0799
		51	52663-60-2 52663-61-3 33979-03-2	S-NY-O-294-rev.01	ng/L	0.00889	0.0411
		52	73575-57-2	S-NY-O-294-rev.01	ng/L	0.00679	0.00679
		53	68194-07-0 37680-73-2	S-NY-O-294-rev.01	ng/L	0.00741	0.0411
		54	41464-48-6 38380-01-7 68194-10-5	S-NY-O-294-rev.01	ng/L	0.00273	0.0169
		55	56558-17-9 68194-08-1	S-NY-O-294-rev.01	ng/L	0.000723	0.00128
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	S-NY-O-294-rev.01	ng/L	0.00391	0.00685
		57	41464-51-1 68194-09-2 55312-69-1	S-NY-O-294-rev.01	ng/L	0.02665	0.02665
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	S-NY-O-294-rev.01	ng/L	0.00650	0.0265
		59	18259-05-7 65510-45-4	S-NY-O-294-rev.01	ng/L	0.00289	0.0160
		60	68194-12-7 38411-22-2	S-NY-O-294-rev.01	ng/L	0.00378	0.0171
		61	32598-13-3 38380-03-9 74472-41-6	S-NY-O-294-rev.01	ng/L	0.00720	0.0487
		62	60145-22-4	S-NY-O-294-rev.01	ng/L	0.0268	3.13
		63	52663-62-4	S-NY-O-294-rev.01	ng/L	0.00669	0.0100
		64	52663-63-5	S-NY-O-294-rev.01	ng/L	0.00710	0.0388

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column (Continued)	PCBs (8 liter) (Continued)	65	70424-70-3 52744-13-5	S-NY-O-294-rev.01	ng/L	0.00266	0.00663
		66	68194-14-9	S-NY-O-294-rev.01	ng/L	0.0219	0.0219
		67	70424-68-9 74472-35-8 68194-13-8	S-NY-O-294-rev.01	ng/L	0.00328	0.00594
		68	65510-44-3	S-NY-O-294-rev.01	ng/L	0.0391	3.13
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	S-NY-O-294-rev.01	ng/L	0.0115	0.0914
		70	59291-64-4	S-NY-O-294-rev.01	ng/L	0.0242	3.13
		71	74472-37-0 52704-70-8 68194-15-0	S-NY-O-294-rev.01	ng/L	0.00281	0.00461
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	S-NY-O-294-rev.01	ng/L	0.00262	0.00262
		73	51908-16-8 74472-46-1 74487-85-7	S-NY-O-294-rev.01	ng/L	0.00678	0.00891
		74	32598-14-4 38380-05-1 74472-43-8	S-NY-O-294-rev.01	ng/L	0.00664	0.0309
		75	35065-27-1	S-NY-O-294-rev.01	ng/L	0.0181	0.0673
		76	39635-33-1 59291-65-5 74472-48-3	S-NY-O-294-rev.01	ng/L	0.0195	3.13
		77	52712-04-6	S-NY-O-294-rev.01	ng/L	0.00505	0.0388
		78	52663-64-6	S-NY-O-294-rev.01	ng/L	0.00507	0.0334
		79	35694-06-5	S-NY-O-294-rev.01	ng/L	0.00601	0.00601
		80	52663-66-8 52663-65-7	S-NY-O-294-rev.01	ng/L	0.00107	0.00594
		82	35065-28-2 74472-44-9 74472-45-0	S-NY-O-294-rev.01	ng/L	0.0120	0.0617
		83	74472-42-7 41411-62-5 74472-49-4	S-NY-O-294-rev.01	ng/L	0.00461	0.00571
		84	57465-28-8 55215-18-4	S-NY-O-294-rev.01	ng/L	0.000190	0.000591
		85	41411-63-6 52663-67-9	S-NY-O-294-rev.01	ng/L	0.00621	0.0251
		87	40186-70-7 39635-35-3	S-NY-O-294-rev.01	ng/L	0.00349	0.00914
		88	60145-23-5 52663-68-0	S-NY-O-294-rev.01	ng/L	0.0115	0.0822
		89	38380-07-3 39635-34-2	S-NY-O-294-rev.01	ng/L	0.00126	0.00457
		90	52663-69-1	S-NY-O-294-rev.01	ng/L	0.00802	0.0388
		91	52663-72-6	S-NY-O-294-rev.01	ng/L	0.00537	0.00537
		92	52712-05-7	S-NY-O-294-rev.01	ng/L	0.00170	0.0107
		93	38411-25-5 74472-47-2	S-NY-O-294-rev.01	ng/L	0.00993	0.0731
		94	52663-70-4	S-NY-O-294-rev.01	ng/L	0.00618	0.0388
		95	38380-08-4 52663-71-5	S-NY-O-294-rev.01	ng/L	0.00663	0.0180
		96	69782-90-7 2136-99-4	S-NY-O-294-rev.01	ng/L	0.000780	0.00151
		98	68194-16-1	S-NY-O-294-rev.01	ng/L	0.00250	0.00250
		99	40186-71-8	S-NY-O-294-rev.01	ng/L	0.00120	0.00891
		100	52663-74-8 74472-52-9	S-NY-O-294-rev.01	ng/L	0.0571	0.0571
		101	74472-51-8 33091-17-7	S-NY-O-294-rev.01	ng/L	0.00594	0.00594
		102	35065-29-3	S-NY-O-294-rev.01	ng/L	0.0272	0.139
		103	69782-91-8	S-NY-O-294-rev.01	ng/L	0.00232	0.00959
		104	74472-50-7	S-NY-O-294-rev.01	ng/L	0.00155	0.00548

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Water Column (Continued)	PCBs (8 liter) (Continued)	105	52663-73-7 32774-16-6	S-NY-O-294-rev.01	ng/L	0.00240	0.00982
		106	35065-30-6	S-NY-O-294-rev.01	ng/L	0.0212	0.0292
		107	41411-64-7	S-NY-O-294-rev.01	ng/L	0.00801	0.00959
		108	68194-17-2	S-NY-O-294-rev.01	ng/L	0.00168	0.00548
		109	52663-75-9	S-NY-O-294-rev.01	ng/L	0.0166	0.0959
		110	42740-50-1 52663-76-0	S-NY-O-294-rev.01	ng/L	0.0185	0.0982
		111	39635-31-9	S-NY-O-294-rev.01	ng/L	0.00213	0.00213
		112	52663-78-2	S-NY-O-294-rev.01	ng/L	0.00277	0.0126
		113	52663-77-1	S-NY-O-294-rev.01	ng/L	0.00374	0.0113
		114 (surrogate)	52663-79-3	S-NY-O-294-rev.01	ng/L	0.00528	0.00528
		115	35694-08-7	S-NY-O-294-rev.01	ng/L	0.00500	0.0411
		116	74472-53-0	S-NY-O-294-rev.01	ng/L	0.00668	0.00668
		117	40186-72-9	S-NY-O-294-rev.01	ng/L	0.00189	0.0155
		118	2051-24-3	S-NY-O-294-rev.01	ng/L	0.000763	0.000763
	Metals	Ag (Silver)	7440-22-4	EPA 200.8	ug/L	0.013	1.0
		Al (Aluminum)	7429-90-5	EPA 200.8	ug/L	2.9	30.0
		As (Arsenic)	7440-38-2	EPA 200.8	ug/L	0.065	1.0
		Ba (Barium)	7440-39-3	EPA 200.8	ug/L	0.53	10.0
		Be (Beryllium)	7440-41-7	EPA 200.8	ug/L	0.073	1.0
		Ca (Calcium)	7440-70-2	EPA 200.8	ug/L	18	500
		Cd (Cadmium)	7440-43-9	EPA 200.8	ug/L	0.039	0.50
		Co (Cobalt)	7440-48-4	EPA 200.8	ug/L	0.045	0.50
		Cr (Chromium)	7440-47-3	EPA 200.8	ug/L	0.078	2.0
		Cu (Copper)	7440-50-8	EPA 200.8	ug/L	0.10	2.0
		Fe (Iron)	7439-89-6	EPA 200.8	ug/L	26	50.0
		Hg (Mercury)	7439-97-6	EPA 245.1	ug/L	0.038	0.20
		K (Potassium)	7440-09-7	EPA 200.8	ug/L	6.4	100
		Mg (Magnesium)	7439-95-4	EPA 200.8	ug/L	5.2	100
		Mn (Manganese)	7439-96-5	EPA 200.8	ug/L	0.33	0.50
		Na (Sodium)	7440-23-5	EPA 200.8	ug/L	22	100
		Ni (Nickel)	7440-02-0	EPA 200.8	ug/L	0.074	1.0
		Pb (Lead)	7439-92-1	EPA 200.8	ug/L	0.067	1.0
		Sb (Antimony)	7440-36-0	EPA 200.8	ug/L	0.059	2.0
		Se (Selenium)	7782-49-2	EPA 200.8	ug/L	0.39	5.0
		Tl (Thallium)	7440-28-0	EPA 200.8	ug/L	0.019	1.0
		V (Vanadium)	7440-62-2	EPA 200.8	ug/L	0.094	1.0
		Zn (Zinc)	7440-66-6	EPA 200.8	ug/L	0.79	5.0
	Other	Hexavalent Chromium	18540-29-9	SW-846 7196A	ug/L	2.7	10
		TSS	WQ001	SM 2540D	mg/L	NA	1.0
		Hardness	Q356	SM 2340B	mg/L	0.066	1.7
Discharge Water	PCBs (Aroclors)	Aroclor 1016	12674-11-2	EPA 608	ug/L	0.0029	0.010
		Aroclor 1221	11104-28-2	EPA 608	ug/L	0.0029	0.010
		Aroclor 1232	11141-16-5	EPA 608	ug/L	0.0029	0.010
		Aroclor 1242	53469-21-9	EPA 608	ug/L	0.0029	0.010
		Aroclor 1248	12672-29-6	EPA 608	ug/L	0.0029	0.010
		Aroclor 1254	11097-69-1	EPA 608	ug/L	0.0029	0.010
		Aroclor 1260	11096-82-5	EPA 608	ug/L	0.0029	0.010
	Metals	Total PCBs (sum of Aroclors)	1336-36-3	EPA 608	ug/L	0.0029	0.010
		Cd (Cadmium)	7440-43-9	EPA 200.8	ug/L	0.089	1.0
		Cr (Chromium)	7440-47-3	EPA 200.8	ug/L	0.18	2.0
		Cu (Copper)	7440-50-8	EPA 200.8	ug/L	0.14	2.0
		Hg (Mercury)	7439-97-6	EPA 1631	ng/L	0.12	0.50
	Other	Pb (Lead)	7439-92-1	EPA 200.8	ug/L	0.019	1.0
		TSS	WQ001	SM 2540D	mg/L	NA	4.0
		TOC	OC003	SM 5310C	mg/L	NA	1.0
		Oil and Grease	Q2240	EPA 1664	mg/L	NA	5.0
Fish	PCBs (Congeners)	Settable Solids	Q596	SM 2540F	ml/L	NA	0.1
		Total PCB (sum of congeners)	1336-36-3	Green Bay Mass Balance Method (S-NY-O-013-rev.11)	ug/g	0.0151	0.313
		02	2051-60-7	S-NY-O-013-rev.11	ug/g	0.000995	0.0219
		03	2051-61-8	S-NY-O-013-rev.11	ug/g	0.0281	5.00
		04	2051-62-9	S-NY-O-013-rev.11	ug/g	0.000708	0.0128
		05	13029-08-8 33146-45-1	S-NY-O-013-rev.11	ug/g	0.000381	0.00621
		06	33284-50-3 34883-39-1	S-NY-O-013-rev.11	ug/g	0.0000975	0.00219

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Fish (Continued)	PCBs (Congeners) (Continued)	07	25569-80-6	S-NY-O-013-rev.11	ug/g	0.000183	0.00347
		08	16605-91-7 34883-43-7	S-NY-O-013-rev.11	ug/g	0.000746	0.0256
		09	34883-41-5	S-NY-O-013-rev.11	ug/g	0.000178	0.125
		10	38444-73-4	S-NY-O-013-rev.11	ug/g	0.000132	0.000512
		11	35693-92-6	S-NY-O-013-rev.11	ug/g	0.000243	0.125
		12	2050-67-1	S-NY-O-013-rev.11	ug/g	0.000837	0.125
		13	2974-92-7 2974-90-5	S-NY-O-013-rev.11	ug/g	0.000186	0.000488
		14	2050-68-2 37680-65-2	S-NY-O-013-rev.11	ug/g	0.000199	0.00676
		15	37680-66-3	S-NY-O-013-rev.11	ug/g	0.000240	0.00676
		16	55702-45-9 38444-76-7	S-NY-O-013-rev.11	ug/g	0.0000274	0.000475
		17	38444-78-9 38444-77-8	S-NY-O-013-rev.11	ug/g	0.000266	0.00713
		19	55720-44-0 37680-68-5 15968-05-5	S-NY-O-013-rev.11	ug/g	0.000180	0.125
		20	15862-07-4	S-NY-O-013-rev.11	ug/g	0.0000482	0.0000970
		21	38444-81-4	S-NY-O-013-rev.11	ug/g	0.0000627	0.00132
		22	55712-37-3	S-NY-O-013-rev.11	ug/g	0.0000386	0.000585
		23	16606-02-3	S-NY-O-013-rev.11	ug/g	0.000331	0.00753
		24	7012-37-5 62796-65-0	S-NY-O-013-rev.11	ug/g	0.000841	0.00964
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	S-NY-O-013-rev.11	ug/g	0.000341	0.00726
		26	38444-85-8 68194-04-7	S-NY-O-013-rev.11	ug/g	0.000194	0.00530
		27	70362-45-7	S-NY-O-013-rev.11	ug/g	0.0000521	0.00163
		28	38444-87-0	S-NY-O-013-rev.11	ug/g	0.000236	0.125
		29	41464-47-5	S-NY-O-013-rev.11	ug/g	0.0000456	0.000731
		30	38444-88-1	S-NY-O-013-rev.11	ug/g	0.000186	0.125
		31	35693-99-3 60233-24-1 74338-23-1	S-NY-O-013-rev.11	ug/g	0.000512	0.00872
		32	70362-46-8 41464-40-8	S-NY-O-013-rev.11	ug/g	0.000137	0.00420
		33	53555-66-1 2437-79-8	S-NY-O-013-rev.11	ug/g	0.000177	0.00183
		34	70362-47-9 32598-12-2	S-NY-O-013-rev.11	ug/g	0.000114	0.00183
		35	54230-22-7 33284-54-7	S-NY-O-013-rev.11	ug/g	0.000187	0.125
		36	37680-69-6	S-NY-O-013-rev.11	ug/g	0.000225	0.125
		37	56558-16-8 41464-39-5	S-NY-O-013-rev.11	ug/g	0.000382	0.00786
		38	38444-90-5 36559-22-5 74472-33-6	S-NY-O-013-rev.11	ug/g	0.000250	0.00475
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	S-NY-O-013-rev.11	ug/g	0.000192	0.00749
		41	73575-52-7 73575-54-9	S-NY-O-013-rev.11	ug/g	0.000211	0.125
		42	38444-93-8	S-NY-O-013-rev.11	ug/g	0.0000536	0.00172
		43	70424-67-8 60145-21-3	S-NY-O-013-rev.11	ug/g	0.000167	0.125
		44	41464-49-7 73575-53-8 39485-83-1	S-NY-O-013-rev.11	ug/g	0.0000672	0.000201
		45	74472-34-7	S-NY-O-013-rev.11	ug/g	0.000124	0.000384
		46	32690-93-0 73575-55-0 33284-53-6	S-NY-O-013-rev.11	ug/g	0.000168	0.00347
		47	32598-11-1	S-NY-O-013-rev.11	ug/g	0.000413	0.00621

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Fish (Continued)	PCBs (Congeners) (Continued)	48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	S-NY-O-013-rev.11	ug/g	0.000644	0.0132
			74338-24-2 68194-05-8 56558-18-0				
		49	41464-43-1 33025-41-1	S-NY-O-013-rev.11	ug/g	0.0000530	0.000932
		50	52663-60-2 52663-61-3 33979-03-2	S-NY-O-013-rev.11	ug/g	0.000252	0.00640
		51	73575-57-2	S-NY-O-013-rev.11	ug/g	0.000119	0.00329
		52	68194-07-0 37680-73-2	S-NY-O-013-rev.11	ug/g	0.0000641	0.000183
		53	41464-48-6 38380-01-7 68194-10-5	S-NY-O-013-rev.11	ug/g	0.000115	0.00329
		54	56558-17-9 68194-08-1	S-NY-O-013-rev.11	ug/g	0.0000516	0.00135
		55	70362-49-1 60145-20-2 74472-36-9 70362-41-3	S-NY-O-013-rev.11	ug/g	0.0000758	0.000274
		56	41464-51-1 68194-09-2 55312-69-1	S-NY-O-013-rev.11	ug/g	0.0000551	0.00102
		57	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	S-NY-O-013-rev.11	ug/g	0.0000887	0.00212
		58	18259-05-7 65510-45-4	S-NY-O-013-rev.11	ug/g	0.0000866	0.00128
		59	68194-12-7 38411-22-2	S-NY-O-013-rev.11	ug/g	0.0000688	0.00137
		60	32598-13-3 38380-03-9 74472-41-6	S-NY-O-013-rev.11	ug/g	0.000106	0.00389
		61	60145-22-4	S-NY-O-013-rev.11	ug/g	0.000201	0.125
		62	52663-62-4	S-NY-O-013-rev.11	ug/g	0.0000359	0.000804
		63	52663-63-5	S-NY-O-013-rev.11	ug/g	0.000119	0.00311
		64	70424-70-3 52744-13-5	S-NY-O-013-rev.11	ug/g	0.0000181	0.000530
		65	68194-14-9	S-NY-O-013-rev.11	ug/g	0.0000535	0.00110
		66	70424-68-9 74472-35-8 68194-13-8	S-NY-O-013-rev.11	ug/g	0.000109	0.000237
		67	65510-44-3	S-NY-O-013-rev.11	ug/g	0.000246	0.125
		68	70424-69-0 31508-00-6 56030-56-9 38380-04-0	S-NY-O-013-rev.11	ug/g	0.000218	0.00731
		69	59291-64-4	S-NY-O-013-rev.11	ug/g	0.000174	0.125
		70	74472-37-0 52704-70-8 68194-15-0	S-NY-O-013-rev.11	ug/g	0.000307	0.000369
		71	76842-07-4 61798-70-7 35694-04-3 41411-61-4	S-NY-O-013-rev.11	ug/g	0.0000185	0.0000569
		72	51908-16-8 74472-46-1 74487-85-7	S-NY-O-013-rev.11	ug/g	0.0000361	0.000713

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Fish (Continued)	PCBs (Congeners) (Continued)	74	32598-14-4 38380-05-1 74472-43-8	S-NY-O-013-rev.11	ug/g	0.0000647	0.00248
		75	35065-27-1	S-NY-O-013-rev.11	ug/g	0.000179	0.00538
		76	39635-33-1 59291-65-5 74472-48-3	S-NY-O-013-rev.11	ug/g	0.000146	0.125
		77	52712-04-6	S-NY-O-013-rev.11	ug/g	0.000101	0.00311
		78	52663-64-6	S-NY-O-013-rev.11	ug/g	0.0000748	0.00267
		79	35694-06-5	S-NY-O-013-rev.11	ug/g	0.0000646	0.000137
		80	52663-66-8 52663-65-7	S-NY-O-013-rev.11	ug/g	0.0000206	0.000475
		82	35065-28-2 74472-44-9 74472-45-0	S-NY-O-013-rev.11	ug/g	0.000188	0.00493
		83	74472-42-7 41411-62-5 74472-49-4	S-NY-O-013-rev.11	ug/g	0.0000292	0.000457
		84	57465-28-8 55215-18-4	S-NY-O-013-rev.11	ug/g	0.00000600	0.0000236
		85	41411-63-6 52663-67-9	S-NY-O-013-rev.11	ug/g	0.000100	0.00201
		87	40186-70-7 39635-35-3	S-NY-O-013-rev.11	ug/g	0.000115	0.000366
		88	60145-23-5 52663-68-0	S-NY-O-013-rev.11	ug/g	0.000198	0.00658
		89	38380-07-3 39635-34-2	S-NY-O-013-rev.11	ug/g	0.0000944	0.000183
		90	52663-69-1	S-NY-O-013-rev.11	ug/g	0.0000960	0.00311
		91	52663-72-6	S-NY-O-013-rev.11	ug/g	0.0000546	0.0000897
		92	52712-05-7	S-NY-O-013-rev.11	ug/g	0.0000473	0.000859
		93	38411-25-5 74472-47-2	S-NY-O-013-rev.11	ug/g	0.000244	0.00585
		94	52663-70-4	S-NY-O-013-rev.11	ug/g	0.000121	0.00311
		95	38380-08-4 52663-71-5	S-NY-O-013-rev.11	ug/g	0.0000555	0.00144
		96	69782-90-7 2136-99-4	S-NY-O-013-rev.11	ug/g	0.00000591	0.000121
		98	68194-16-1	S-NY-O-013-rev.11	ug/g	0.0000270	0.0000695
		99	40186-71-8	S-NY-O-013-rev.11	ug/g	0.0000231	0.000713
		100	52663-74-8 74472-52-9	S-NY-O-013-rev.11	ug/g	0.0000289	0.00102
		101	74472-51-8 33091-17-7	S-NY-O-013-rev.11	ug/g	0.0000596	0.000201
		102	35065-29-3	S-NY-O-013-rev.11	ug/g	0.000297	0.0111
		103	69782-91-8	S-NY-O-013-rev.11	ug/g	0.0000314	0.000768
		104	74472-50-7	S-NY-O-013-rev.11	ug/g	0.0000834	0.000219
		105	52663-73-7 32774-16-6	S-NY-O-013-rev.11	ug/g	0.0000259	0.000786
		106	35065-30-6	S-NY-O-013-rev.11	ug/g	0.0000661	0.00234
		107	41411-64-7	S-NY-O-013-rev.11	ug/g	0.0000402	0.000768
		108	68194-17-2	S-NY-O-013-rev.11	ug/g	0.0000704	0.000219
		109	52663-75-9	S-NY-O-013-rev.11	ug/g	0.000275	0.00768
		110	42740-50-1 52663-76-0	S-NY-O-013-rev.11	ug/g	0.000275	0.00786
		111	39635-31-9	S-NY-O-013-rev.11	ug/g	0.0000423	0.0000798
		112	52663-78-2	S-NY-O-013-rev.11	ug/g	0.0000254	0.00101
		113	52663-77-1	S-NY-O-013-rev.11	ug/g	0.000163	0.000451
		114 (surrogate)	52663-79-3	S-NY-O-013-rev.11	ug/g	0.00000900	surrogate**
		115	35694-08-7	S-NY-O-013-rev.11	ug/g	0.0000861	0.00329
		116	74472-53-0	S-NY-O-013-rev.11	ug/g	0.0000931	0.000201
		117	40186-72-9	S-NY-O-013-rev.11	ug/g	0.0000348	0.00124
		118	2051-24-3	S-NY-O-013-rev.11	ug/g	0.0000112	0.0000222
	PCBs (Aroclors)	Aroclor 1016	12674-11-2	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
		Aroclor 1221	11104-28-2	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
		Aroclor 1232	11141-16-5	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500

Table A1-2
Reference Limit and Evaluation

Matrix	Category	Analyte Name or DB-1 Peak Number	CAS number(s)	Analytical Method	Units	Laboratory Method Detection Limits ¹	Laboratory Reporting Limits ¹
Fish (Continued)	PCBs (Aroclors) (Continued)	Aroclor 1242	53469-21-9	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
		Aroclor 1248	12672-29-6	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
		Aroclor 1254	11097-69-1	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
		Aroclor 1260	11096-82-5	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
	PCBs (Aroclors)	Total PCBs (sum of Aroclors)	1336-36-3	SW846 8082A (S-NY-O-314-rev.00)	ug/g	0.0247	0.0500
	Other	Percent Lipid	LP001	NE158_05	%	NA	0.03
Sediment	PCBs (Aroclors) - Microwave	Aroclor 1016	12674-11-2	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1221	11104-28-2	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1232	11141-16-5	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1242	53469-21-9	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1248	12672-29-6	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1254	11097-69-1	GEHR8082	mg/kg	0.019	0.050
		Aroclor 1260	11096-82-5	GEHR8082	mg/kg	0.019	0.050
		Total PCBs (sum of Aroclors)	1336-36-3	GEHR8082	mg/kg	0.019	0.20
	PCBs (Aroclors) - ASE	Aroclor 1016	12674-11-2	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1221	11104-28-2	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1232	11141-16-5	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1242	53469-21-9	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1248	12672-29-6	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1254	11097-69-1	GEHR8082	mg/kg	0.029	0.050
		Aroclor 1260	11096-82-5	GEHR8082	mg/kg	0.029	0.050
		Total PCBs (sum of Aroclors)	1336-36-3	GEHR8082	mg/kg	0.029	0.20
	Other	TOC	OC002	Lloyd Kahn	mg/Kg	NA	200
	Other	Percent Moisture	WC002	ASTM D2216-98	%	NA	0.020
Air	PCBs (Aroclors)	Aroclor 1016	12674-11-2	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1221	11104-28-2	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1232	11141-16-5	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1242	53469-21-9	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1248	12672-29-6	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1254	11097-69-1	TO-4A	ng/m ³	0.101	0.347
		Aroclor 1260	11096-82-5	TO-4A	ng/m ³	0.101	0.347
		Total PCBs (sum of Aroclors)	1336-36-3	TO-4A	ng/m ³	0.101	0.347
	PCBs (Aroclors)	Aroclor 1016	12674-11-2	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1221	11104-28-2	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1232	11141-16-5	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1242	53469-21-9	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1248	12672-29-6	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1254	11097-69-1	TO-10A	ng/m ³	5.13	13.9
		Aroclor 1260	11096-82-5	TO-10A	ng/m ³	5.13	13.9
		Total PCBs (sum of Aroclors)	1336-36-3	TO-10A	ng/m ³	5.13	13.9

Notes

¹ The MDLs and RLs will be adjusted for sample specific factors such as % solids, weights/volumes and dilutions that vary from the standard procedure. Sample-specific MDLs and RLs are highly matrix dependent. The MDLs and RLs reported for the Air Matrix are based on the anticipated volume of air to be collected in the field (288 m³ for TO-4A and 7.2 m³ for TO-10A). Data will be evaluated against sample-specific MDLs and RLs. Non-detects, or values detected at a level below the sample specific MDL, will be reported as the sample specific MDL and U flagged (with the exception of analytes where MDL is NA). Values detected above the sample-specific MDL and below the sample-specific RL will be reported and flagged as estimated ("J").

NA - Not Applicable. Method detection limit (MDL) reporting will not be used for this analyte. The analyte will be reported to the Reporting Limit (RL).

** - Peak 114 corresponds to IUPAC 207, which is the surrogate. The surrogate was not included in the Green Bay MDL study performed for fish or sediment.